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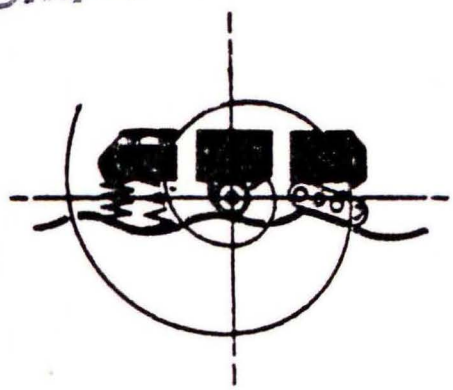

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N. Cummings and L. White, Compilers

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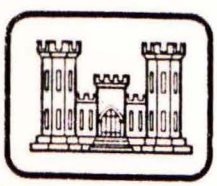

Prepared by
UNITED STATES ARMY CORPS OF ENGINEERS
COLD REGIONS RESEARCH AND ENGINEERING LABORATORY
HANOVER, NEW HAMPSHIRE, U.S.A.
in cooperation with
THE INTERNATIONAL SOCIETY FOR TERRAIN VEHICLE SYSTEMS

Preface

This mobility bibliography was compiled by literature searching on five computerized data bases. The term mobility includes many topics, therefore a breakdown was made to include ten major topics which comprise the chapters in this bibliography. Boolean logic is applied to the keywords when searching the data bases. Snow and vehicle were combined to be the index term snow vehicle to be used in the search. Thus, any reference having that index term would be identified. An index term is a device used to identify the content of a reference so that the term snow vehicle would refer to just that: a snow vehicle. A reference dealing with vehicle traction in snow would not appear in this search. The next step in the search used the index term snowmobile because snowmobiles represent a specific form of snow vehicle that would be missed in a search only using snow vehicle. The databases used for all ten chapters and a brief discussion of each follows:

COLD is the Bibliography on Cold Regions Science and Technology prepared by the Library of Congress and the U.S. Army Cold Regions Research and Engineering Laboratory, merged with the Antarctic Bibliography prepared by the Library of Congress for the National Science Foundation. The Antarctic Bibliography online covers 1962 to date and the CRREL Bibliography covers 1968 to date. Content coverage includes all disciplines dealing with Antarctica, snow, ice, frozen ground, navigation in ice, civil engineering in cold regions, and behavior and operation of materials and equipment. Source materials include monographs, technical reports, journal articles, patents, conference papers, and maps. The Bibliography is international in scope and includes many foreign languages but the language is indicated on each citation for the user.

COMPENDEX is the database of the Engineering Society and covers 1970 to date online. Content coverage includes significant world-wide engineering literature from approximately 2,000 serials and over 900 monographs Fields of engineering and related subject areas included are civil engineering, engineering physics, automotive engineering, transportation, instruments and measurement, control engineering, materials properties and testing to name a few areas.

The **NTIS** database was used to cover U.S. government sponsored research and development technical reports from over 200 Federal agencies. The database is sponsored by the Dept. of Commerce, National Technical Information Service and covers the period 1970 to date. The database is multi-discipline in scope and includes earth sciences, materials, ordnance, mechanical and civil engineering, navigation and many more areas.

The **SAE** (Society of Automotive Engineers) database was searched also. Since 1965 the SAE database provides access to a select number of technical papers on the technology of the automotive and automotive related industries. All papers were presented at an SAE meeting or conference and were screened and reviewed prior to presentation. Citations represent individual papers, although a reference is given to any collection, for example Special Publication, Conference Proceeding, or SAE Transaction, in which a

paper may have been bound. Topics covered include vehicle safety, materials and structures, and testing and instrumentation, as they relate to automobiles and other self-propelled vehicles, such as trucks, tractors, snowmobiles, etc.

The last database that was searched was **TRIS** which is supplied by the Transportation Research Board. TRIS is a composite file whose records are either abstracts of documents and data holdings, or resumes of research projects that are relevant to the planning, development, operation, and performance of transportation systems and their components. The collective subject scope of TRIS includes the following facets of air, highway, rail, mass transit and other transportation modes: materials, design, construction, maintenance technology, legislation and regulations, physical and economic performance characteristics, and energy, environment, and safety concerns. Research project resumes in TRIS are generally acquired directly from sponsoring agencies and performing organizations who are responsible for ongoing research in the transportation field. Document abstracts are prepared in part from primary reports, articles, and other types of transportation related documents, and in part from abstracts acquired from other information services and centers in the U.S. and abroad. The major suppliers include U.S. Dept. of Transportation, Highway Research Information Service, sponsored by state departments of Highways and Transportation, the National Highway Traffic Safety Administration, and the National Technical Information Service which cites government sponsored reports other than the Dept. of Transportation. The time period covered is 1968 to the present. Some of the items included from this data base will be ongoing projects rather than completed reports.

The chapter designations were generated by the computer in conjunction with the keywords used to retrieve the citation. They were not manually checked as to their actual pertinence to the chapter title. Many of the items have overlapping interest to several topics, Chapter IV, entitled vehicle mobility, is broad in scope and could have been broken down into more specific topics if time allowed. Items that you recognize as missing may be missing from the actual database or may have not been retrieved because of their indexing compared to our search keywords.

Items with PB or AD numbers indicated may be purchased from the National Technical Information Service, Springfield, VA. The SAE publications may be purchased from Society of Automotive Engineers, 400 Commonwealth Dr., Warrendale, PA., 15096. The cold regions items may be retrieved though the Library of Congress, Photoduplication Service, Washington, DC., or the USACRREL Library, P.O. Box 282, Hanover, NH, 03755. The Engineering Societies Library, 349E 47th St., New York, NY., 10017, is also a source for many of the general engineering items.

I emphasize that this is an initial computerized bibliography with an author index compiled by Melissa Hutt, Administrative Secretary of ISTVS. Terry Rogers, also, spent extensive time and effort proofreading the original draft. Corrections and additions will be merged for later edition and update. The original search was conducted in May 1980 therefore that is the cutoff date for new publication entries.

The following list of keywords was used to search all the databases mentioned. Some of these terms did not produce any citations because they were not recognized index terms: mobility, off-road vehicle, terrain-

vehicle interaction, over-snow vehicles, traction, ground vehicle morphology, vehicle model, mobility models, vehicle technology, vehicle ride, man-vehicle systems, terrain analogs, trafficability, tracked vehicles, wheeled vehicles, air cushion vehicles, amphibious vehicles, walking vehicles, walking machines, terrain-vehicle systems, soil mechanics for off-road vehicles, snow mechanics for off-road vehicles, soil strength measurement, snow strength measurement, soil classification, terrain classification, rolling resistance, bull-dozing resistance.

Chapter I	-	Snow vehicles or snowmobiles.
Chapter II	-	Rolling resistance.
Chapter III	-	Traction.
Chapter IV	-	Vehicle mobility.
Chapter V	-	Off road vehicles, tracked vehicles, or wheeled vehicles.
Chapter VI	-	Snow strength measurement or soil strength measurement.
Chapter VII	-	Terrain vehicles or terrain analogs.
Chapter VIII	-	Amphibious vehicles.
Chapter IX	-	Vehicle models or modeling.
Chapter X	-	Air cushion vehicles.

Nomenclature

Databases

Compendex	-	Engineering Index
SAE	-	Society of Automotive Engineers
NTIS	-	National Technical Information Service
TRIS	-	Transportation Research Information Service
COLD	-	Bibliography of Cold Regions Science & Technology
AU	-	Author
TI	-	Title
OTI	-	Other language title
SO	-	Source
LA	-	Language
IT	-	Index terms
OS	-	Organizational source
AD	-	Identification number for ordering from NTIS

Language Code

Ita	-	Italian
Rus	-	Russian
Swe	-	Swedish
Eng	-	English
Jap	-	Japenese
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Chapter I - Snow vehicles or snowmobiles.

CHAPTER 1

1. AU - Kurtukov, IA.M.
TI - Preparatione of industrial transportation for winter
OTI - O podgotovk transportnykh khoziaistv k zime
SO - Promyshlennyi Transport, 1979, No. 8, p 2-5
LA - Rus
IT - transportation; motor vehicles; cold weather performance; snow roads; ice roads

2. AU - Mavlenkov, A.
TI - Screw-driven vehicles for Siberia
SO - U.S. Army Foreign Science and Technology Center. Translation, Aug 1979, FSTC-HT-510-79, 9 p, Translation of Tekhnika i nauka 10: 24-26, 1978. Distribution limited to U.S. Government agencies only
LA - Eng, Rus
IT - ice cutting; vehicles; snow vehicles

3. AU - Belinskii, AI.U.
TI - Passenger transport in northern population resettlement systems
OTI - Passazhirskii transport v sistemakh rasseleniia Severa
SO - Problemy Severa, 1979, Vol. 20, p. 98-105
LA - Rus
IT - transportation; airplanes; air cushion vehicles; motor vehicles; all-terrain vehicles; swamps; ice navigation; snow roads; ice roads

4. AU - Khlebnikov, A.M.; Krestovnikov, G.A.
TI - Peculiarities of motor transport under northern conditions
OTI - Osobennosti ispol'zovaniia avtotransportnykh sredstv v usloviiakh Severa
SO - Problemy Severa, 1979, Vol. 20, p 47-59
LA - Rus
IT - analysis-mathematics; motor vehicles; roads; permafrost beneath roads; trafficability; tracked vehicles; tires; rubber-ice friction; rubber-snow friction; swamps; all-terrain vehicles

5. TI - Finnish motorized sled
SO - U.S. Army Foreign Science and Technology Center. Technical translation, Apr 1979, FSTC-HT-954-79, 2 p, Distribution limited to U.S. Government agencies only. Translation of Nauk i tekhnika (Finland), No. 3:3, 1979.
LA - Eng, Rus
IT - sleds; snow vehicles

6. AU - Sboev, V.V.
TI - Influence of snow deformation on the traffic of low-powered amphibian airsleighs

SO - Data of glaciological studies. Translated from Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, Vol. 21, 1973, p 429-433, U.S. National Science Foundation, 1974
LA - Eng, Rus
IT - snow deformation; snow vehicles

7. AU - Irwin, G.J.
TI - Snow classification in support of off-road vehicle technology
SO - Canada. Defence Research Establishment, Ottawa, DREO report, DREO-801, Feb 1979, 29 p
LA - Eng
IT - permafrost; cold weather tests; snow structure; metamorphism-snow; classifications; penetrometers; snow vehicles

8. AU - Brown, R.L.
TI - Volumetric constitutive law for snow subjected to large strains and strain rates
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 79-20, Aug 1979, 13 p
LA - Eng
IT - snow deformation; snow compression; volume; strains; strain tests; dynamic loads; tracked vehicles

9. AU - Boyles, J.M.; Schmutzler, R.A.; Rowley, P.D.
TI - Snowmobiles in Antarctica
SO - Arctic, Sep 1979, 32(3), p 189-200
LA - Eng
IT - transportation-oversnow; vehicles-toboggans; snow vehicles

10. AU - Nurmiev, G.N.
TI - Conference in Tyumen'
OTI - Konferentsiia v Tiumeni
SO - Promyshlennyi transport, Jan 1979, No. 1, p 26
LA - Rus
IT - snow cover; meetings; ice navigation; transportation; vehicles; trafficability

11. AU - Yong, R.N.; Harrison, W.L.
TI - On vehicle mobility in snow-covered terrain. Vol 1. Problem development and requirements for analysis
SO - Journal of Terramechanics, 15(4), Dec 1978, p 223-235
LA - Eng
IT - snow density; dynamic loads; snow cover effect; trafficability; snow cover structure; heat transfer; solar radiation; vehicles; interfaces

12. AU - Katunskii, A.M.
TI - Driving tanks
OTI - Vozhdenie tankov
SO - Moscow, Voenizdat, 1976, 174 p, (Pertinent, p 56-80, 159)

LA - Rus
IT - military equipment; tanks-combat vehicles; cold weather operation; snow removal equipment

13. AU - Baiano, G.
TI - Dobbiaco 78: operational and technological development
OTI - Dobbiaco 78: evoluzioni operative e technologiche
SO - Neve International, 20(2), Apr 1978, p 32-34
LA - Ita
IT - snow removal equipment; snow vehicles; trafficability

14. AU - Landi, G.
TI - Tracked snow vehicles, their possible use in construction and in the operation of cable transportation systems
OTI - Veicoli cingolati da neve: possibilita di utilizzo nella construzione e nell'esercizio degli impianti a fune
SO - Neve International, 20(3), Sep 1978, p 19-21
LA - Ita
IT - tracked vehicles; snow vehicles; cold weather construction; cable railways

15. AU - Kihlgren, B.
TI - Rolling resistance of aircraft wheels in dry snow
SO - National Swedish Road and Traffic Research Institute. Report, 1977-VTI-128, 36 p, In Swedish with English summary
LA - Swe, Eng
IT - airplanes; vehicles wheels; friction; snow cover effect

16. AU - Trantham, A.W.; Womble, C.C.; Williamson, R.
TI - Detailed combined limited technical/user test of Small Unit Support Vehicle (SUSV) BV206
SO - Distribution limited to U.S. Government agencies only. Aberdeen Proving Ground, MD, U.S. Army Test and Evaluation Command, 1978, 123 p
LA - Eng
IT - all-terrain vehicles; tracked vehicles; military operation; snow vehicles; cold weather tests

17. AU - Dibbern, J.S.
TI - Oversnow and adverse-terrain vehicles - Foreign
OS - U.S. Army Materiel Development and Readiness Command, Foreign Science and Technology Center
SO - Defence Intelligence Agency, DIA Task PT-1120-03-75, Jan 1979, 159 p
LA - Eng
IT - military transprtation; arctic terrain; design criteria; snow vehicles; tracked vehicles; trucks; cold weather operation

18. AU - Ringer, T.R.
TI - Snow deposits on simulated A.C.V. track sections, 1970-1971

SO - National Research Council, Canada, Division of Mechanical Engineering. Laboratory memorandum, Sep 1971-LT-153
LA - Eng
IT - air cushion vehicles; snow accumulation; railroad tracks; snow removal

19. TI - Snow transport equipment model 1000 towed snowplow carrier
OS - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory
SO - CEL techdata sheet, Nov 1974-74-10, 1 p
LA - Eng
IT - construction-road; snow-construction; vehicles; skis; snow roads; construction equipment

20. TI - 4-by-4 cargo/passenger van with high flotation tires
OS - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory
SO - CEL techdata sheet, Mar 1973, 73-5, 2 p
LA - eng
IT - vehicles

21. AU - Karlstrom, L.
TI - Tracked vehicle "Bandvagn 206" driving test and force testing in bare and snow-covered mountain terrain
SO - U.S. Army Foreign Science and Technology center. Translation, Nov 3, 1977-FSTC 734-77, 60 p, Translation of Forsvaretsmarterielverk, Huvudavdelningen for Hjulfordonsbyran. Research report dated 18 May 1976. Distribution limited to U.S. Government agencies only
LA - Eng, Swe
IT - mountains; snow cover; tracked vehicles; cold weather tests

22. AU - Verzhbitskii, A.N.; Krestovnikov, G.A.
TI - Evaluating fuel consumption by all-terrain vehicles
OTI - Otsenka toplivnoi ekonomichnosti snegobolotokhodov
SO - Avtomobil'naia promyshlennost', Oct 1977, No. 10, p 8-10
LA - Rus
IT - swamps; snow cover; motor vehicles; all-terrain vehicles

23. AU - Harrison, W.L.
Ti - Shallow snow performance of wheeled vehicles
SO - International Conference of the International Society for Terrain-Vehicle Systems, 5th, Detroit, MI, June 206, 1975. Proceedings. Vol. 2, Report Number MP 1130, p 589-614, Hoboken, NJ, 1976
LA - Eng
IT - snow compaction; analysis-mathematics; vehicles; snow compression; traction; loads-forces; snow mechanics; rubber-snow friction

24. TI - Requirement for identification and characterization of snow for mobility purposes
OS - International Society for Terrain-Vehicle Systems, Committee on Snow Mechanics Research Coordination
SO - McGill University, Montreal, Geotechnical Research Centre. Soil mechanics series, May 978, No. 40, Prepared for the Sixth International Conference of the I.S.T.V.S., Vienna, Aug 1978
LA - Eng
IT - all-terrain vehicles; snow strength; trafficability; classifications; snow mechanics; snow vehicles

25. Au - Yong, R.N.; Harrison, W.L.
TI - Snow trafficability - the knowledge gap
SO - McGill University, Montreal, Geotechnical Research Centre. Soil mechanics series, May 1978, No. 40, Prepared for the Canadian Society for Terrain-Vehicle Systems Symposium "Econo-Mobility", Toronto, March 30-31, 1978
LA - Eng
IT - snow vehicles; snow strength; trafficability; snow mechanics

26. AU - Yong, R.N.; Fukue, M.
TI - Snow mechanics: machine-snow interaction
SO - McGill University, Montreal, Geotechnical Research Centre. Soil mechanics series, May 1978, No. 40, Prepared for the Second International Symposium on Snow Removal and Ice Control Research, Hanover, NH, May 15-19, 1978
LA - Eng
IT - pressure; shear properties; snow mechanics; snow strength; shear stress; snow vehicles

27. AU - Yong, R.N.
TI - Recent studies in snow mechanics and trafficability
SO - McGill University, Montreal, Geotechnical Research Centre. Soil mechanics series, May 1978, No. 40
LA - Eng
IT - snow mechanics; trafficability; snow surveys; snow strength; snow vehicles

28. AU - Hosoya, M.
TI - Record of snow vehicle KD 605 used for the JARE South Pole Traverse in 1968-1969
SO - Antarctic Re. (Tokoyo), Aug 1970, No. 38, p 46-64, In Japanese with English summary
LA - Jap, Eng
IT - vehicles-tractors; expeditions-Japanese Antarctic Research Expedition

29. AU - Beard, W.H.; Moser, E.H.; Stehle, N.S.
TI - Vehicle road systems on snow and ice

SO - In: Antarctic Treaty Meeting of Experts on Logistics, Tokoyo, 1968, Records. Tokoyo, Ministry of Education, 1968, p 400-417
LA - Eng
IT - construction-equipment; construction-road; transportation-oversnow; vehicles; McMurdo Station

30. AU - Usuku, Y.; Hosoya, M.
TI - Design of snow car for Japanese Antarctic Research Expedition
OTI - Nankyoku kansoku yo setsujo-sha (KD 60) no kihon sekkei ni tsuite
SO - Text in Japanese with English summary. Antarctic Rec. (Tokoyo), No. 24:1-13, March 1965
LA - Jap
IT - vehicles-tractors

31. AU - Maita, S.
TI - Dieselization of the snow car and the electric generator for the Japanese Antarctic Research Expedition
SO - In; Symposium on Antarctic Logistics, 1962, National Academy of Science, National Research Council, p 450-466, 1963
LA - Eng
IT - engines-diesel; power-electric; vehicles

32. AU - Smith, F.A.
TI - Snow-trac, a useful scout vehicle
SO - In: Symposium on Antarctic Logistics, 1962, National Academy Science, National Research Council, p 388-394, 1963
LA - Eng

33. AU - Crary, A.P.: Robinson, E.S.
TI - Oversnow traverse from McMurdo to the South Pole
OS - Wisconsin, University
SO - Science, vol. 135(3500), Jan 26, 1962, p 291-295
LA - Eng
IT - glacier ice-seismic exploration; glacier ice-thickness snow-accumulation; altimetry; expeditions-McMurdo-South Pole Traverse-1960-1961; vehicles; Amundsen - Scott Station

34. AU - Taylor, D.
TI - Maintenance information for the LGP Caterpillar D4 Series D snow tractor
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Oct 1965-N-778, 6 p
LA - Eng
IT - vehicles-tractors

35. AU - Hosoya, M.; Tsuchiya, K.; Yamamoto, R.
TI - Report on the operation of mechanical transport for the JARE South Pole Traverse 1968-69
SO - Japanese Antarctic Research Expedition, Scientific reports, March 1971, special issue No. 2, p 204-261

LA - Eng
IT - expeditions-Jare South Pole Traverse 1968-1969; cargo operations-oversnow; fuel; low temperature effects-on equipment; sleds; transportation-oversnow; traverse operations; vehicles

36. AU - Butyrin, M.
TI - Maintenance of automotive equipment in freezing weather
OTI - Sberezhenie avtotraktornoi tekhniki zimoi
SO - Vestnik protivovozdushnoi oborony, Jan 1978, No. 1, p 73-77
LA - Rus
IT - cold weather operation; cold weather maintenance; airports, military transportation; de-icing; motor vehicles; snow removal equipment; logistics

37. AU - Kuroda, M.
TI - Resistance of snow to a slidge (second report)
SO - U.S. Army Cold Regions Research and Engineering Laboratory (SIPRE), Report Number SIPRE TL 36, Feb 1955, 5 p
LA - Eng, Jap
IT - snow vehicles; snow physics; snow strength; wood-snow friction; rubber-snow friction

38. AU - Dibbern, J.S.
TI - Soviet and Japanese oversnow vehicles
SO - Journal of Terramechanics, vol. 14, no. 4, Dec 1977, p 227-236
LA - Eng
IT - snow vehicles

39. AU - Smith, T.G.
TI - Travelling the Arctic by snowmobile
SO - Canadian Geographical Journal, vol. 96, no. 2, Feb/Mar 1978, p 60-65
LA - Eng
IT - research projects; snow vehicles; ice navigation; traverses

40. AU - Young, T.K.
TI - Use of articulated wheel loaders in snow removal
SO - Highway Research Record, 1971, No. 359, p 50-53
LA - Eng
IT - snow removal equipment; vehicle wheels

41. TI - Symposium on tracks or wheels, Calgary, Alberta, June 3-4, 1976
SO - Canadian Society for Terrain Vehicle Systems
LA - Eng
IT - all-terrain vehicles; vehicle wheels; tracked vehicles; snow road

42. TI - Industrial Vehicles Corporation's "Bolzano Series" features integral traction, high maneuverability

OTI - La "Gamma Bolzano" dell'Iveco: veicoli a trazione integrale ad elevata manovrabilita
SO - Strade e traffico, Nov-Dec 1977, No. 262, p 4-7
LA - Ita
IT - winter maintenance; road maintenance; snow removal equipment; all-terrain vehicles

43. AU - Abele, G.; Liston, R.A.
TI - Air cushion vehicle ground contact directional control devices
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 76-45, Dec 1976, 15 p
LA - Eng
IT - air cushion vehicles

44. Au - Yong, R.N.; Fukue, M.
TI - Performance of snow in confined compression
SO - Journal of Terramechanics, vol. 14, no. 2, June 1977, p 59-82
LA - Eng
IT - snow compression; snow cover structure; snow density; snow deformation; mechanical tests; vehicles

45. AU - Malygin, V.A.
TI - Effect of form and size in indentations in compactor discs on snow cover penetration
OTI - Vliianie formy i razmerov vyrezov v shtampakh na ikh pogruzhaemost' v snezhnyi pokrov
SO - Gorkii. Politekhnicheskii Institut. Trudy, vol. 25, no. 9, 1969, p 101-103
LA - Rus
IT - snow mechanics; snow compaction; tracked vehicles

46. AU - Rukavishnikov, S.V.; Panov, V.I.; Maslennikov, V.A.
TI - Studies of the effect of the location of the center of gravity of snow vehicles on inertia over virgin snow surfaces
OTI - Issledovanie vliianiia polozheniia tsentra tiazhesti snegokhodnykh mashin n soprotivlenie dvizheniiu po snezhnoi tseline
SO - Gorkii. Politekhnicheskii Institut. Trudy, vol. 25, no. 9, 1969, p 40-45
LA - Rus
IT - tracked vehicles; loads-forces; trafficability

47. AU - Panov, V.I.
TI - Problems in studying the movement of sled-trailers
OTI - Nekotorye problemy issledovanii dvizheniia sannykh pritsepov
SO - Gorkii. Politekhnicheskii Insitut. Trudy, vol. 25, no. 9, 1969, p 23-30
LA - Rus
IT - vehicles; snow-density; snow-physical properties; sleds; tracked vehicles

48. AU - Tsutsoev, V.I.
TI - Winter operation of tractors and automobiles
OTI - Zimniaia ekspluatatsiia traktorov i avtomobilei
SO - Moskovskii Rabochii, 1977, 103 p
LA - Rus
IT - cold weather performance; winter maintenance; motor vehicles; tractors; snow removal; snowdrifts

49. AU - Mikhailov, IU.B.
TI - Using studded tires on cars
OTI - O primenenii avotombil'nykh shin s shipami protivoskol'zheniia
SO - Moscow. Avtomobil'no-dorozhnyi Institut. Trudy, 1974, Vol. 84, p 6-7
LA - Rus
IT - road icing, winter maintenance; motor vehicles; tires; rubber-ice friction; rubber-snow friction

50. AU - Hanamoto, B.
TI - Effect of snow cover on obstacle performance of vehicles
SO - Journal of Terramechanics, Report Number MP 933, vol. 13, no. 3, Oct 1976, p 121-140
LA - Eng
IT - tracked vehicles; snow cover effect; cold weather performance; topographic features; trafficability; snow vehicles

51. AU - Lysenko, L.Kh.; IUvenal'ev, I.N.
TI - Operation of snowmobiles
OTI - Esksploatatsiia aerosanei
SO - Moscow, Transport, 1976, 128 p
LA - Rus
IT - maintenance; cost analysis; snow vehicles; sleds

52. AU - Berezhnov, N.G.
TI - Using motor vehicle parks in winter in West Siberia
OTI - Osnovy eksplautatsii mashinno-traktornogo parka v zimnikh usloviiakh Zapadnoi Sibiri
SO - Barnaul, 1975, 340 p
LA - Rus
IT - winter maintenance; motor vehicles; rubber-snow friction; rubber-ice friction; road icing; fuels; lubricants; engine starters

53. AU - Berezhnov, N.G.; Elizar'ev, V.G.
TI - Using motor vehicle parks in freezing weather
OTI - Ispol'zovanie mashinno-traktornogo parka v zimnikh usloviiakh
SO - Altaiskoe knizh. Izd-vo, 1975, 87 p
LA - Rus
IT - winter maintenance; motor vehicles; rubber-ice friction; rubber-snow friction; ice crossings; road icing

54. AU - Abele, G.
TI - Hovercraft ground contact directional control devices
SO - International Hovering Craft, Hydrofoil and Advanced Transit Systems Conference, 2nd, Amsterdam, May 17-20, 1976. Proceedings. Report Number MP 875, p 51-59, London, Kalerglic Publications, 1976
LA - Eng
IT - tundra terrain; impact; all-terrain vehicles; air cushion vehicles; vehicle wheels

55. AU - Abele, G.; Parrott, W.H.
TI - Some effects of air cushion vehicle operations on deep snow
SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972. Proceedings. Vol. 2, p 214-241, Stockholm, Sweden, 1972
LA - Eng
IT - surface properties; tests; air cushion vehicles; snow depth; erosion

56. AU - Silvennoinen, U.; Haarlaa, R.
TI - Aspects on the mobility of logging tractors on snow
SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972. Proceedings. Vol. 2, p 205-213, Stockholm, Sweden, 1972
LA - Eng
IT - tests; tracked vehicles; snow strength; snow cover stability; trafficability; tractors

57. AU - Parrott, W.H.; Ueda, H.T.; Abele, G.
TI - Portable instrument for determining snow characteristics related to trafficability
SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972. Proceedings. Vol. 2, Report Number MP 886, p 193-204, Stockholm, Sweden, 1972
LA - Eng
IT - shear properties; snow strength; snow cover stability; measuring instruments; trafficability

58. TI - Proceedings. Vol. 2. Interational Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972
SO - Stockholm, Sweden, 1972, 258 p
LA - Eng
IT - snow depth; snow strength; tests; air cushion vehicles; trafficability; all-terrain vehicles

59. AU - Ivanov, E.; IAmkovoi, E.
TI - Resucing bogged down tanks
OTI - Vytaskivanie zastrivavshikh tankov
SO - Tekhnika i vooruzhenie, Mar 1976, No. 3, p 26-28
LA - Rus

IT - frozen ground; snow roads; military transportation; ice roads; motor vehicles; tanks-combat vehicles; rescue operations; swamps

60. AU - Harwood, T.A.
TI - Some considerations for off-road vehicles in northern conditions
SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970. Proceedings. Vol. 2, p 197-219, Ottawa, Canada, 1971
LA - Eng
IT - all-terrain vehicles; climatic factors; snow cover structure; muskeg; tracked vehicles

61. AU - Denison, J.B.
TI - Off-road trucking winter operation
SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970. Proceedings. Vol. 2, p 181-188, Ottawa, Canada, 1971
LA - Eng
IT - snow roads; roads; construction; cargo; vehicles

62. AU - Vasil'ev, A.P.
Ti - State of roads and safety of motor vehicle traffic under difficult weather conditions
OTI - Sostoianie dorog i bezopasnost' dvizheniia avtomobilei v slozhnykh pogodnykh usloviiakh
SO - Moscow, Transport, 1976, 224 p
IT - wind factors; glaze; roads; road icing; snowdrifts; snow accumulation; rubber-ice friction; rubber-snow friction; cohesion

63. AU - Harrison, R.T.
TI - ORV's: environmental effects
SO - Arctic Soils Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, p 256-267, Anchorage, Alaska, Bureau of Land Management, Aug 1976
LA - Eng
IT - snow vehicles; pollution; damage; all-terrain vehicles

64. AU - Sexton, M.L.
TI - Vehicles and roads for petroleum exploration
SO - Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, p 80-81, Anchorage, Alaska, Bureau of Land Management, Aug 1976
LA - Eng
IT - snow roads; arctic terrain; all-terrain vehicles; petroleum transportation

65. AU - Hosoya, M.
TI - New oversnow vehicle KC40
OTI - Atarshii setsujosha KC40
SO - Polar News (Kyokuchi), July 1976, No. 23, p 50-52
LA - Jap
IT - transportation-oversnow; vehicles; snow vehicles

66. AU - Lehfeld, K.H.; Bartz, H.; Matz, J.P.: Neumann, H.; Schmidt, H.; Wohrn, K.
TI - Winter road service
OTI - Strassenwinterdienst
SO - Berlin, VEB Verlag fur Verkehrswesen, 1975, 223 p
LA - Ger
IT - snowsheds; salting; wind factors; winter maintenance; snow removal; ice prevention; snow removal equipment; snow fences; snow vehicles; road maintenance

67. AU - Hanamoto, B.
TI - Effects of variation in drawbar hitch location on vehicle performance
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 237, Sep 1975, 16 p
LA - Eng
IT - all-terrain vehicles; snow cover effects; noncohesive soils

68. TI - All-terrain vehicles symposium
SO - Oilweek, July 12, vol. 27, no. 22, 1976, p 10-11
LA - Eng
IT - meeting; air cushion vehicles; snow roads

69. AU - Aslanov, G.A.
TI - Organization on subglacial fishing using snow vehicles
OTI - Organizatsiia podlednogo lova s ispol'zovaniem snegokhodov
SO - Rybnoe khoziaistvo, Feb 1976, No. 2, p 53-54
LA - Rus
It - trafficability; icebound rivers; all-terrain vehicles; tracked vehicles; snow depth; snow vehicles; ice drills

70. AU - Riabov, V.P.; Shubin, M.A.; Erastov, A.I.A.
TI - Access roads built along railroad tracks
OTI - Pritrassovye i pod'exdnye avotomobil'nye dorogi
SO - Moscow, Transport, 1975, 101 p
LA - Rus
IT - railroad tracks; roads; motor vehicles; roadbeds; permafrost beneath roads; taiga terrain; mountains; snow roads; ice roads

71. AU - Afanas'ev, V.A.
TI - Winter maintenance of side roads for military vehicles
OTI - Soderzhanie avtomobil'nykh pod'exdov zimoi
SO - Tyl i snabzheni Sovetskikh vooruzhenneykh sil, Nov 1975, No. 11, p 75-78
LA - Rus
IT - winter maintenance; military transportation; motor vehicles; roads; snow removal equipment; de-icing

72. AU - Thomas, M.W.
TI - Ground transportation for polar operations - 16-wheel Low-Ground Pressure Vehicle (LGPV-16)

SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory. Technical note, Jan 1976-N-1422, 29 p
LA - Eng
IT - vehicles; transportation-oversnow; Antarctica - McMurdo Station; snow vehicles; cold weather tests; tires; design criteria

73. AU - Barthelemy, J.L.
TI - Snow-road construction - a summary of technology from past to present
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical Report, Dec 1975-R0831, 31 p
LA - Eng
IT - construction-road; construction-equipment; snow roads; construction equipment

74. AU - Klimenko, A.I.
TI - Land transportation of the future
OTI - Nazemnyi transport budushchego
SO - Moskovskii rabochii, 1975, 120 p
LA - Rus
IT - all-terrain vehicles; air cushion vehicles; snow vehicles

75. AU - Kjellin, P.
TI - Effects of snowmobiles and other off-road vehicles on vegetation
OTI - Snoskoterns och andra terrangmotorfordons inverkan pa vegetationen
SO - Motortrafik i terrang-forskningsrapporter om miljoeffekter, p 115-169, in Swedish with English summary and captions. Solna, Sweden, Statens naturvardsverk, 1975
LA - Swe, Eng
IT - all-terrain vehicles; vegetation patterns; damage; snow cover effect

76. AU - Karaban, G.L.; Balovnev, V.I.; Zasov, I.A.
TI - Equipment for maintenance and repair of roads and airports (structures and basic design)
OTI - Mashiny dlia soderzhaniia i remonta avtomobil'nykh dorog i aerodromov (konstruktsiia i osnovy rascheta)
SO - Moscow, Mashinostroenie, 1975, 367 p
LA - Rus
IT - roads; motor vehicles; design; airports; winter maintenance; snow removal equipment; road icing; de-icers; mechanical ice prevention; chemical ice prevention

77. AU - Thomas, M.W.
TI - Polar transportaton equipment - five-ton truck with high flotation tires
SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory, Technical Note, Nov 1975-N-1405, 14 p

LA - Eng
IT - vehicles-trucks; transportation-oversnow; Antarctica-McMurdo Station; snow vehicles; cold weather tests

78. Deleted.

79. AU - Harrison, W.L.; Knight, S.J.; Liston, R.A.
TI - Vehicle performance over snow; math-model validation study
SO - U.S. Army Cold Regions Reseach and Engineering Laboratory, Report Number TR 268, Dec 1975, 84 p, Includes as Appendix C, USAEWES methodology for predicting vehicle performance in subarctic snows by S.J. Knight, and, as Appendix D, Land Locomotion Laboratory method of prediction of shallow and deep snow vehicle performance by R.A. Liston
LA - Eng
IT - vehicles; snow mechanics; snow depth; mathematical models; tracked vehicles; vehicle wheels

80. AU - Akkerman, G.L.; Sadov, V.V.; Sadovskaia, N.N.
TI - Effectiveness of flooded roads at the Sovetsko-Sosninskoe oil field
OTI - Effektivnost' zatopliaemykh avtomobil'nykh dorog na Sovetsko-Sosninskom mestorozhdenii nefti
SO - Zheleznodorozhnyi put' i transportnoe stroitel'stvo (Materialy XV nauchno-tekhnicheskoi konferentsii) (Railroad tracks and transportation engineering. Proceedings of the 15th Scientific and Technological Conference), p 42-44, Sverdlovsk, Ural-skii elektromekhanicheskii institut inzhenerov zheleznodorozhnogo transporta,1972
LA - Rus
IT - snow raods; ice roads; construction costs; roads; floods

81. AU - Hanamoto, B.
TI - Traction aid for wheeled vehicles
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 232, July 1975, 9 p
LA - Eng
IT - vehicle wheels; tracked vehicles; trafficability

82. AU - Thomas, I.A.
TI - Northern off-road transportation in the 70's
SO - American Society of Civil Engineers, Construction Division. Journal, vol. 101, no. 3, Sept 1975, p 635-646
LA - Eng
IT - design; all-terrain vehicles; tracked vehicles; snow vehicles

83. TI - Snowmobile-seaplane
OTI - Aerosani-glisser
SO - Nauka i zhizn', Sept 1974, No. 9, p 75
LA - Rus
IT - motor vehicles; snow vehicles; airplanes

84. AU - Weidick, A.
TI - Final destination of "Schneespatz" and "Eisbar" - the propeller sledge of Wegener's last Greenland expedition
SO - Polarforschung, vol. 44, no. 1, 1944, p 89-91, with German summary
LA - Eng, Ger
IT - snow vehicles; sleds; propellers; transportation

85. TI - 1-ton truck cargo pickup with high flotation tires
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA
SO - NCEL techdata sheet, April 1973, No. 73-15, 2 p
LA - Eng
IT - vehicles-trucks; motor vehicles; tires

86. TI - D4 low ground pressure snow tractor
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA
SO - NCEL techdata sheet, April 1973, No. 73-14, 2 p
LA - Eng
IT - vehicles-tractors; tractors

87. TI - Snow trails for light, wheeled vehicles
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA
SO - NCEL techdata sheet, March 1973, No. 73-7, 2 p
LA - Eng
IT - construction-road; vehicles-trucks; snow-construction; snow roads; motor vehicles

88. TI - Tracked 4-passenger personnel/cargo carrier
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA
SO - NCEL techdata sheet, March 1973, No. 73-4, 1 p
LA - Eng
IT - vehicles-weasels; transportation-oversnow; tracked vehicles; snow vehicles

89. TI - Tracked 10-passenger personnel/cargo carrier
OS - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA
SO - NCEL techdata sheet, March 1973, No. 73-3, 2 p
LA - Eng
IT - vehicles-weasels; transportation-oversnow; tracked vehicles; snow vehicles

90. AU - Mikhailovskii, A.
TI - Winter maintenance of military roads
OTI - Soderzhanie voenno-avtomobil'nykh dorog zimoi
SO - Tyl i snabzhenie sovetskikh vooruzhennykh sil, Jan 1974, No. 1, p 73-78
LA - Rus
IT - military equipment; motor vehicles; military transportation; roads; winter maintenance; snow removal equipment

91. AU - Hosoya, M.
TI - Ability of KD-60 snow car and its problems

SO - Polar News, vol. 55, no. 1, July 1969, p 7-12
LA - Jap
IT - vehicles-tractors; transportation-oversnow; sleds; snow vehicles; tracked vehicles; design criteria; cold weather operation; sleds

92. AU - Murayama, M.
TI - South Pole Traverse by the 9th JARE
SO - Polar News, vol. 5, no. 1, July 1969, p 2-6
LA - Jap
IT - expeditions-JARE South Pole Traverse; research programs-Japan; transportation-oversnow; traverse operations; vehicles-tractors; snow vehicles; tracked vehicles; design criteria; cold weather operation

93. AU - Thomas, M.W.; Vaudry, K.D.
TI - Snow road construction technique by layered compaction of snowblower processed snow
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Aug 1973-N-11305, 12 p
LA - Eng
IT - construction-road; vehicles-trucks; construction-equipment; snow-compaction; snow-construction; snow roads; snow compaction; construction equipment; motor vehicles; snow-construction material

94. AU - Krivoshein, M.
TI - DE-7 runway maintenance vehicle
SO - U.S. Army Foreign Science and Technology Center. Technical translation, July 1973, FSTC-HT-23-0963-73, 5 p
LA - Eng, Rus
IT - snow removal equipment; vehicles

95. AU - Bamford, M.A.T.
TI - Tracked vehicle design for Arctic applications
SO - Engineering Journal, vol. 5, no. 7-8, July/Aug 1973, p 31-34
LA - Eng
IT - arctic soil; design criteria; materials; all-terrain vehicles; tracked vehicles; snow vehicles

96. AU - Nadrshin, T.K.
TI - Progress of tracked vehicles on undisturbed snow and winter roads
OTI - Dvizhenie gusenichnykh traktorov po snezhnoi tseline i zimnim dorogam
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziasistva, 1973, No. 1, p 25-27
LA - Rus
IT - snow roads; ice roads; metal-snow friction; tracked vehicles; cold weather performance

97. AU - Pozdeev, E.A.
TI - Increase in the adhesion-traction properties of tractors in winter
OTI - Povyshenie tiagovo-stsepnykh kachestv traktorov pri rabote zimoi
SO - Lesnaia promyshlennost', Oct 1972, No. 10, p 28-29
LA - Rus
IT - tractors; cold weather performance; tracked vehicles; metal-snow friction

98. TI - Snow-plow with a pneumatic hoist attached to a motor vehicle MD-54-4
OTI - Ustanovka na motovoze MD-54-4 snegoochistitelia s pnevmaticheskim pod'emnikom
SO - Biulleten' tekhniko-ekonomicheskoi informatsii, No. 5, May 1973, p 37
LA - Rus
IT - snow removal equipment

99. AU - Ringer, T.R.; Price, R.D.
TI - Snow accumulations on air cushion vehicle track sections
SO - National Research Council, Canada. Mechanical engineering report, Oct 1972, DME-MD-52, 44 p
LA - Eng
IT - air cushion vehicles; snow vehicles; snow accumulation; snow roads; wind factors

100. AU - Rula, A.A.
TI - Trafficability of snow, Greenland studies, 1955 and 1957
SO - U.S. Army Waterways Experiment Station, Vicksburg, MS. Technical memorandum, May 1960, AEWES-TM-3-414-3, 196 p
LA - Eng
IT - performance; snow cover structure; snow physics; Greenland; snow roads; snow strength; tracked vehicles; snow vehicles; trafficability

101. AU - Vaisberg, I.S.
TI - Snow compaction in construction of snow roads for motor vehicles
SO - U.S. Army Foreign Science and Technology Center. Technical translation, Jan 3, 1973, FSTC-HT-23-2326-73, 5 p
LA - Eng, Rus
IT - snow roads; snow-construction material; snow compaction

102. TI - Preliminary report of the oversnow traverse of the 10th Japanese Antarctic Research Expedition in 1969-1970
SO - Antarctic Record, No. 39, Jan 1971, p 39-45
LA - Eng
IT - glacier ice; research programs-Japan; Antarctica - Queen Fabiola Mountains; ice sheets; ice surface; snow surveys

103. AU - IAnkin, V.M.
TI - Resistance to forward movement of a track-laying tractor of the 3-ton class on snow-covered virgin soil
SO - U.S. Army Tank Automotive Command, Foreign Technology Office. Translation, Jan 15, 1969-FIO 933, 6 p, Translated from unidentified Russian source
LA - Eng, Rus
IT - tracked vehicles; snow strength; trafficability

104. AU - Hanamoto, B.
TI - Effect of snow cover on obstacle-crossing performance of vehicles
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 239, Nov 1972, 29 p
LA - Eng
IT - topographic features; tracked vehicles; snow cover effect; cold weather performance; snow vehicles

105. AU - Ageikin, IA.S.
TI - Wheels and combined propulsion gear for all-terrain vehicles (theory and design)
OTI - Vezdekhodnye kolesnye i kombinirovannye dvizhiteli (teoriia i raschet
SO - Moscow, Mashinostroenie, 1972, 184 p
LA - Rus
IT - vehicle wheels; all-terrain vehicles; tracked vehicles; tires; rubber-ice friction; rubber-snow friction; soil trafficability

106. AU - Korsak, V.K.
TI - Selecting motor and all-terrain vehicles for operation in the North
OTI - O vybore sredstv avtomobil'nogo i bezdorozhnogo transportae dlia raboty na Sever
SO - Problemy Severa, 1972, Vol. 17, p 101-108
LA - Rus
IT - cold weather performance; cold weather operation; tracked vehicles; motor vehicles; all-terrain vehicles; tires; rubber-snow friction.

107. AU - Abel', E.B.
TI - Increasing the ability of motor vehicles to travel under arctic conditions
OTI - Povyshenie prokhodimosti avtomobilei v usloviiakh Arktiki
SO - Problemy Severa, 1972, Vol. 16, p 238-243
LA - Rus
IT - tundra terrain; snow surface; ice surface; trafficability; motor vehicles; all-terrain vehicles

108. AU - Freitag, D.R.; Janosi, Z.J.
TI - Tracks versus wheels in soft soil and snow
SO - U.S. Army Waterways Experiment Station, Vicksburg, MS. Miscellaneous paper, May 1964, AEWES-Misc-Paper 651, 57 p

LA - Eng
IT - tracked vehicles; vehicle wheels; trafficability

109. Au - Benson, C.S.
TI - Physical properties of the snow cover in the Ft. Greely area, Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report number SR 178, Aug 1972, 24 p
LA - Eng
IT - United States - Alaska - Fort Greely; snow cover structure; snow physics; meteorological factors

110. AU - Shestakov, I.
TI - Across snow-covered mountain passes
OTI - Cherez zasnezhennye perevaly
SO - Tyl i snabzhenie sovetskikh vooruzhennykh sil, Feb 1972, No. 2, p 72-75
LA - Rus
IT - military transportation; logistics; motor vehicles; cold weather performance; engine starters; lubricants; winter maintenance

111. TI - Snow road construction and maintenance manual
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, 1972, 17 p
LA - Eng
IT - construction-road; construction-equipment; snow-construction; snow-construction material; snow roads; construction equipment; manuals; cold weather construction

112. AU - Ager, B.H.
TI - Compacted snow as a transport substratum
SO - National Research Council, Canada. Technical translation, 1960-TT-865, 113 p, Translation of Norrlands Skogvardsforbunds Tidskrift, (3), p 293-388, 1956
LA - Eng, Swe
IT - tracked vehicles; snow-construction material; snow density; temperature effects; snow bearing strength; snow roads; snow compaction; bearing tests

113. AU - Scheurich, P.R., Jr.; Kidd, M.A.
TI - Results of preliminary parametric design analysis of an arctic surface effect vehicle
SO - Canadian Aeronautics and Space Journal, vol. 18, no. 5, May 1972, p 129-134
LA -Eng
IT - air cushion vehicles; design criteria; ice cover effect; snow cover effect

114. AU - Beskin, I.A.
TI - Off-the-road transportation vehicles
OTI - Transport dlia bezdorozh'ia

SO - Moscow, Znanie, 1971 48 p
LA - Rus
IT - snow cover effect; motor vehicles; all-terrain vehicles; tracked vehicles; air cushion vehicles; soil trafficability

115. AU - IUvenal'ev, I.N.
TI - Snowmobiles and air-screw sleds
OTI - Motornye narty i aerosani
SO - Moscow, Znanie, 1972 48 p
LA - Rus
IT - snow cover effect; snow vehicles; motor vehicles; sleds; trafficability; rubber-snow friction; wood-snow friction

116. AU - Shugurov, L.M.
TI - Giant automobiles
OTI - Avtomobili-giganty
SO - Moscow, Znanie, 1971 48 p
LA - Rus
IT - motor vehicles; all-terrain vehicles; tires; rubber-snow friction

117. AU - Nilson, L.
TI - Tracked vehicle for use on snow
SO - Soviet Inventions Illustrated. Section 3, Mechanical and General, Dec 1971, p E11-E12
LA - Eng, Rus
IT - snow vehicles; tracked vehicles

118. AU - Abele, G.; Parrott, W.H.
TI - Snow surface erosion from a peripheral jet cushion ACV
SO - U.S. Amry Cold Regions Research and Engineering Laboratory, Report Number SR 163, Oct 1971, 19 p
LA - Eng
IT - snow surface; deformation; tests; air cushion vehicles; snow erosion

119. AU - Leighty, R.D.; Vogel, T.C.
TI - Infrared detection of military vehicles on snow-covered background
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 155, July 1965, 101 p
LA - Eng
IT - aerial reconnaissance; remote sensing; snow cover

120. AU - Taylor, D.
TI - Polar construction equipment - weight reduction in a D4 Series D snow tractor
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, March 1965, N-689, 18 p
LA - Eng
IT - transportation; tractors; snow vehicles

121. AU - Pierce, N.E.; Moser, E.H.
TI - Polar transportation equipment - tests on a model 4VL Trackmaster
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, June 1964, N-609, 8 p
LA - Eng
IT - cold weather performance; cold weather tests; transportation; cargo; tracked vehicles

122. AU - Taylor, D.
TI - Maintenance information for the LGP caterpillar D4 Series C snow tractors
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, March 1964, N-574, 21 p
LA - Eng
IT - maintenance; manuals; cold weather operation; tractors; snow vehicles

123. AU - Pierce, N.E.; Moser. E.H.
TI - Specifications for the Model 80 snow plane
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Oct 1962-N-463
LA - Eng
IT - snow vehicles; snow compaction; construction equipment; snow-planes; specifications

124. AU - Taylor, D.
TI - Low ground pressure Caterpillar Model 955 Traxcavator specifications
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Sept 1962, N-459, 5 p
LA - Eng
TI - snow vehicles; tracked vehicles; specifications

125. AU - Taylor, D.
TI - Low ground pressure Caterpillar D4 Snow Tractor specifications
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Aug 1962, N-456, 5 p
LA - Eng
IT - snow vehicles; tractors; specifications

126. AU - Doman, J.J.; Dawes, J.R.; Taylor, D.
TI - Knock-down angle dozer installed on a Caterpillar D2 LGP Snow Tractor
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, June 1959, N-358
LA - Eng
IT - snow vehicles; tractors; construction equipment

127. AU - Doman, J.J.; Dawes, J.R.; Taylor, D.
TI - Dual rail track system installed on Caterpillar D2 LGP Snow Tractors

SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, April 1959, N-330
LA - Eng
IT - Transportation; tractors; snow vehicles

128. AU - Burton, G.W.; Radecki, C.T.
TI - Experimental skis, toboggan and track attachments for 6x6 cargo carrier
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, May 1953, N-129, 11 p
LA - Eng
IT - cargo; performance; tests; sleds; snow vehicles; tracked vehicles

129. AU - Weiss, S.J.
TI - Traction tests in snow at the Sierra Test Site, February-March 1952
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, March 1952, N-107, 5 p
LA - Eng
IT - tests; performance; snow strength; tracked vehicles; trafficability; traction

130. AU - Weiss, S.J.
TI - Use of the Soil Truss Mark 2 in determining the shearing strength characteristics of a snow cover
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Jan 1952, N-75, 5 p
LA - Eng
IT - trafficability; snow cover; shear strength; test equipment

131. AU - Moser, E.H.; Sherwood, G.E.
TI - Polar transportation - snow trails for light wheeled vehicles
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Aug 1967, R-540
LA - Eng
IT - vehicles; transportation; Antarctica; snow roads, trafficability

132. AU - Beard, W.H.
TI - Polar transportation equipment - 4 x 4 cargo-personnel van with high-flotation tires
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Aug 1966, R-464
LA - Eng
IT - transportation; motor vehicles; cold weather operation; cold weather performance

133. AU - Taylor, D.
TI - Polar construction equipment - LGP D4 Series D snow tractor
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, June 1966, R-449, 30 p

LA - Eng
IT - snow vehicles; tractors; construction equipment; cold weather performance

134. AU - Beard, W.H.; Sherwood, G.E.
TI - Polar transportation equipment, 6 x 6 truck-tractor and 20-ton semitrailer with high-flotation tires
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Oct 1965, R-409
LA - Eng
IT - cargo, transportation; snow vehicles; cold weather performance; tractors

135. AU - Beard, W.H.; Sherwood, G.E.
TI - Polar transportation equipment - one-tone power wagon with high-flotation tires
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Aug 1965, R-401, 25 p
LA - Eng
IT - Antarctica; snow vehicles; transportation; cold weather; performance

136. AU - Taylor, D.
TI - Polar construction equipment - LGP D4 Series C snow tractor
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, April 1964, R-299, 22 p
LA - Eng
IT - performance; snow vehicles; tractors; cold weather operation

137. AU - Moser, E.H.
TI - Snow compaction in Antarctica - roads on snow-covered sea ice
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, March 1964, R-298, 23 p
LA - Eng
IT - ice roads; trafficability; Antarctica; snow compaction; snow roads; construction

138. AU - Moser, E.H.
TI - Snow compaction - design criteria and test procedures
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, April 1964, R-113
LA - Eng
IT - tests; runways; snow roads; snow compaction; snow bearing strength; design criteria; trafficability

139. AU - Camm, J.B.
TI - Snow-compaction equipment. Snow drags
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Oct 20, 1960, R-109, 401 p
LA - Eng
IT - snow compaction; snow roads, construction equipment

140. AU - Scott, A.L.; Taylor, D.
TI - Dual-rail snow tracks for the Caterpillar D-4 Tractor
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Oct 27, 1960, R-106, 10 p
LA - Eng
IT - snow vehicles; tracked vehicles; performance

141. AU - Taylor, D.
TI - Tundra truck
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Sept 30, 1960, R-94, 35 p
LA - Eng
IT - performance

142. AU - Taylor, D.; Doman, J.J.; Scott, A.L.
TI - Dual-rail snow tracks for Model 955 Traxcavator
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical note, Aug 1960, R-90, 21 p
LA - Eng
IT - snow vehicles; tracked vehicles; performance

143. AU - Kevan, P.G.
TI - Vehicle tracks on high Arctic tundra: an 11 year case history around Hazen Camp, Ellesmere Island, N.W.T.
SO - Canada. Defence Research Board. Earth Sciences Division. Report, Sept. 1971, Hazen 41, 17 p
LA - Eng
IT - snow cover effect; damage; tundra terrain; tracked vehicles; frozen ground compression; soil strength

144. AU - Zlobin, G.P.; Simonov, IU.A.
TI - Air cushion ships
OTI - (Suda na vozdushnoi podushke)
SO - Leningrad, Sudostroenie, 1971, 212 p
LA - Rus
IT - cold weather performance; ships; air cushion vehicles; all-terrain vehicles

145. TI - Sleds
SO - U.S. Army Test and Evalution Command. Report, May 23, 1969, MTP-2-3-065, 28 p
LA - Eng
IT - sleds; snow vehicles

146. AU - Khodakov, V.G.
TI - Structure and properties of snow cover in various landscape types
OTI - (Struktura i svoistva snezhnogo pokrova v raznykh landshaftnykh zonakh)
SO - Geograficheskoe obshchestvo SSSR. Zabaikal'skii filial. Izvestiia, vol. 4, no. 3, 1968, p 58-68

LA - Rus
IT - snow depth; snow temperature; albedo; snow density; trafficability; tracked vehicles; landscape types; snow cover distribution; tundra topography; forest tundra; taiga terrain; snow cover structure

147. AU - IAnkin, V.M.; Golovko, V.I.
TI - Thrust and cohesive properties of K-700 Tractors under winter conditions
OTI - (Tiagovo-stsepnye svoistva traktora K-700 v zimnikh usloviiakh)
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, No. 1, 1971, p 35-36.
LA - Rus
IT - tracked vehicles; snow depth; metal snow friction; cold weather performance

148. AU - Rukavishnikov, S.V.; Malygin, V.A.
TI - Relationship between rut depths and snow cover thickness
OTI - (Zavisimost' glubiny kolei ot tolshchiny snezhnogo pokrova)
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, 1971, No. 1, p 34-35
LA - Rus
IT - tracked vehicles; snow depth; snow cover distribution; metal snow

149. AU - Kuroiwa, D.; Wakahama, G.; Endo, Y.
TI - Snow compaction with snow vehicle (Snow Master)
SO - Low Temperature Science (Teion Kagaku). Series A, Physical Sciences, 1970-28, p 215-223, In Japanese with English summary
LA - Jap, Eng
IT - skiing, snow compaction; snow vehicles; snow density

150. AU - Wuori, A.F.
TI - Snow stabilization studies
SO - Kingery, W.D., ed. Ice and snow, properties, processes and applications, p 438-458, M.I.T., Cambridge, MA, 1963
LA - Eng
IT - equipment; trafficability; snow compaction; snow stabilization

151. AU - Vladimirov, V.
TI - On the road in winter
OTI - (Po zimnei doroge)
SO - Tekhnika i vooruzhenie, No. 1, Jan 1971, p 32
LA - Rus
IT - cold weather operation; roads; motor vehicles; rubber-snow friction; military transportation; military equipment

152. AU - Wolff, A.
TI - Winter roads on ice

SO - U.S. Army Cold Regions Research and Engineering Laboratory (ACFEL), Report Number ACFEL TL 23, 1954, 15 p, Translation from Svenska vagforening, Vol. 27, Dec 1940, 268-282
LA - Eng, Swe
IT - ice roads; road maintenance

153. AU - Shoikhet, B.M.
TI - Air cushion in industrial transportation
OTI - (Vozdushnaia podushka v promyshlennom transporte)
SO - Moscow, Znanie, 1970, 47 p
LA - Rus
IT - snow cover effect; transportation; air cushion vehicles; swamps

154. AU - Kabakov, N.S.; Chursin, L.I.
TI - Pull indices of a six-wheel-drive tractor-model under winter conditions
OTI - (Tiagovye pokazateli traktora-maketa s tremia vedushchimi mostami v zimnikh usloviiakh)
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, No. 11, 1970, p 39-40
LA - Rus
IT - cold weather operation; rubber-snow friction; rubber-ice friction; vehicles; traction

155. AU - Segal', V.A.
TI - Drilling assemblies on air cushion, designed for Arctic conditions
OTI - (Proekty burovykh ustanovok na vozdushnoi podushke, prednaznachennykh dlia raboty v arkticheskikh usloviiakh)
SO - Burenie, No. 9, 1970, p 30-32
LA - Rus
IT - Arctic climate; transportation; air cushion vehicles; drilling

156. AU - Parnell, P.
TI - Alaska trucking is rough work
SO - Alaska Industry, vol. 3, no. 2, Feb 1971, p 43-45, 52
LA - Eng
IT - highway transportation; ice roads; snow roads

157. AU - Jansen, D.
TI - Hovercraft to forefront of Arctic petroleum hunting
SO - Oilweek, vol. 33, no. 3, March 1971, p 40, 42, 48
LA - Eng
IT - snow cover effect; Canada-northwest territories-north slope; ice navigation; air cushion vehicles; all-terrain vehicles; marine transportation; petroleum industry

158. AU - Hanamoto, B.
TI - T-130 Studded Track Pad Test, ice and hard packed snow
SO - U.S. Army Tank Automotive Command. Mobility Systems Laboratory. Technical report, March 1971, No. 11090, 51 p

LA - Eng
IT - tracked vehicles; trafficability; performance; tests; snow cover; ice cover

159. AU - Abele, G.
TI - Penetration of vehicle track grousers into hard snow
SO - International Society for Terrain-Vehicle Systems. Third International Conference, July 9-12, 1969, Essen, W. Germany. Proceedings, Vol. 2, Report Number MP 11, 1969, p 1-24
LA - Eng
IT - tracked vehicles; snow hardness; penetration tests; trafficability

160. AU - Gerdel, R.W.
TI - Influence of Arctic environment on military mobility
SO - Society of Automotive Engineers. Automotive Engineering Congress, Detroit, MI, Jan. 14-18, 1963, Report Number MP 131, Jan 1963, No. 623C, 12 p
LA - Eng
IT - snow cover; ice cover strength; snow vehicles; military engineering; trafficability

161. TI - Practical experience with hovercraft
SO - Air-cushion Vehicles, April 1967, p 53
LA - Eng
IT - snow cover effect; air cushion vehicles

162. AU - Ichihara, K.; Mizoguchi, M.
TI - Skid resistance of snow- or ice-covered roads
SO - National Research Council. Highway Research Board. Special report, Snow removal and ice control research. Proceedings of an international symposium held at Dartmouth College, Hanover, NH April 8-10, 1970, No. 115, April 1970, p 104-114, Includes discussion
LA - Eng
IT - roads; friction; temperature effects; vehicle wheels; snow cover effect; skid resistance

163. AU - Simakov, E.
TI - Air-cushion all-terrain vehicles
OTI - (Vozdushnye vezdekhody)
SO - Moscow, DOSAAF, 1967, 79 p, (Pertinent pages 33-37)
LA - Rus
IT - air cushion vehicles

164. AU - Benua, IU.IU.; Korsakov, V.M.
TI - Air-cushion vessels
OTI - (Suda na vozdushnoi podushke)
SO - Leningrad, Sudpromgiz, 1962, 121 p (Pertinent pages 81-83)
LA - Rus
IT - air cushion vehicles; ships

165. AU - Ruzhitskii, E.I.
TI - Air-cushion all-terrain vehicles
OTI - (Vozdushnye vezdekhody)
SO - Moscow, Mashinostroenie, 1964, 178 p (Pertinent pages 82-84)
LA - Rus
IT - air cushion vehicles

166. AU - Pearson, F.
TI - Safe operation of motorized toboggans
SO - Canadian Mining Journal, vol. 91, no. 9, Sept 1970, p 62-65
LA - Eng
IT - ice cover thickness; wind factors; snow vehicles

167. AU - Wilson, J.A.; Nelson, M.W.
TI - History of the development of oversnow vehicles
SO - Western Snow Conference. Proceedings, 1968, 36th, p 9-18
LA - Eng
IT - snow vehicles; history

168. AU - Viktorov, V.
TI - In deep snow
OTI - (Po glubokomu snegu)
SO - Tekhnika i vooruzhenie, No. 1, Jan 1970, p 41
LA - Rus
IT - military transportation; military equipment; cold weather operation; vehicles

169. AU - Vologdin, V.
TI - Vehicle with helical propellers
OTI - (Vintokhod)
SO - Tekhnika i vooruzhenie, No. 1, Jan 1970, p 24-25
LA - Rus
IT - military transportation; snow vehicles

170. AU - Moldenhawer, A.
TI - Air cushion vehicles
OTI - (Poduszkowce)
SO - In Polish with abridged English table of contents enclosed. Warsaw, Wydawnictwa komunikacji i lacznosci, 1966, 262 p
LA - Pol
IT - snow cover effect; icing

171. AU - Brylov, S.A.; Grabchak, L.G.
TI - Means of transportation for geological exploration
OTI - (Transport pri geologorazvedochnykh rabotakh)
SO - Moscow, Nedra, 1970, 184 p, (Pertinent pages 47-62, 94-102, 109-113)
LA - Rus
IT - snow roads; ice roads; transportation; vehicles; air cushion vehicles

172. AU - Korytov, N.V.
TI - Boats and machines on air cushion
OTI - (Suda i apparaty na vozdushnoi podushke)
SO - Moscow, Voenizdat, 1964, 117 p, (Pertinent pages 74-79)
LA - Rus
IT - snow cover effect; air cushion vehicles; river ice; sea ice; icing

173. AU - Gurov, O.
TI - Transportation equipment for northern regions
OTI - (Tekhnika dlia Severa)
SO - Tekhnika i vooruzhenie, No. 2, Feb 1969, p 32
LA - Rus
IT - vehicles; sleds; snow removal equipment; excavating equipment

174. AU - IAnkin, V.; Golovko, V.
TI - Loading K-700 Tractor for winter road conditions
OTI - (Zagruzka traktora K-700 na zimnikh transportnykh rabotakh)
SO - Tekhnika v sel'skom khoziaistve, No. 1, 1970, p 53-54
LA - Rus
IT - cold weather operation; vehicles; vehicle wheels; rubber snow friction

175. AU - Nikolaev, A.F.; Gavrilov, IU.M.; Kuliashov, A.P.; Persikov, V.I.
TI - Testing machines equipped with rotary propellers in swamps
OTI - (Nekotorye rezul'taty ispytanii mashiny na rotorno-vintovykh dvizhiteliakh v usloviiakh zabolochennoi mestnosti)
SO - Torfianaia promyshlennost', No. 12, 1969, p 2-4
LA - Rus
IT - lakes; swamps; propellers

176. AU - Abele, G.
TI - Performance testing of an air cushion vehicle on the Greenland Ice Cap
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 91, Feb 1966, 19 p
LA - Eng
IT - air cushion vehicles

177. AU - Wuori, A.F.
TI - Testing of a vibratory snow compactor
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 55, Jan 1965, 11 p
LA - Eng
IT - snow compaction

178. AU - Lanyon, J.J.
TI - Conservation of M29C Weasel Tracks
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 42, Sept 1962, 7 p

LA - Eng
IT - snow vehicles; metals; tests

179. AU - Langway, C.C., Jr.
TI - Snow studies and other observations - Operation King Dog, Sondrestrom, Greenland
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number SR 31, July 1959, 12 p
LA - Eng
IT - snow vehicles; traverses; ice mounds; ice surface features; snowfall; accumulation; meteorological data; topographic features

180. AU - Skinrood, A.C.
TI - The effect of snow properties on vehicle trafficability in the Arctic
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number SR 22, Feb 1957, 13 p
LA - Eng
IT - snow vehicles; trafficability; snow strength

181. AU - Benson, C.S.
TI - Observations of snow cover - Kapuskasing, Canada, 18-26 January 1954
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number SR 10, March 1954, 4 p
LA - Eng
IT - recrystallization; snow density; snow temperature; temperature distribution; temperature gradients; snow bearing strength; trafficability

182. AU - Mellor, M.
TI - Oversnow transport
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number M III-A4, Jan 1963, 58 p
LA - Eng
IT - design criteria; snow vehicles; crevasse detection

183. AU - Landauer, J.K.; Royse, F.
TI - Energy of snow compaction and its relation to trafficability
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number RR 14, Oct 1956, 11 p
LA - Eng
IT - snow compaction; trafficability

184. AU - Gerdel, R.W.; Parrott, W.H.; Diamond, M.; Walsh, K.J.
TI - Some factors affecting the vehicular trafficability of snow
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number RR 10, Dec 1954, 13 p
LA - Eng
IT - trafficability; snow vehicles

185. AU - Abele, G.; Ramseier, R.O.; Wuori, A.F.
TI - Design criteria for snow runways
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 212, Nov 1968, 36 p
LA - Eng
IT - runways; snow roads; sintering; snow compaction

186. AU - Abele, G.
TI - Subsurface transportation methods in deep snow
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 160, Dec 1965, 48 p
LA - Eng
IT - snow trenches; trafficability; transportation; snow-construction material

187. AU - Abele, G.
TI - Trafficability in snow trenches
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number TR 88, Feb 1963, 13 p
LA - Eng
IT - snow bearing strength; hardness; compressive strength; Greenland; snow trenches; trafficability; snow-construction material; vehicles; railroads; subsurface structures

188. AU - Wuori, A.F.
TI - Snow stabilization using dry processing methods
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number TR 68, July 1960, 16 p
LA - Eng
IT - snow-construction material; snow removal equipment; snow compaction; snow vehicles; compacting

189. AU - Diamond, M.; Bader, H.: Lanyon, J.L.
TI - Studies on vehicular trafficability of snow (Parts 1 and 2)
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number TR 35, April 1956, July 1959, 16 p
LA - Eng
IT - snow cover; snow vehicles; trafficability

190. TI - Larven Power Ski
SO - Journal of Terramechanics, vol. 6, no. 4, 1969, p 63-64
LA - Eng
IT - snow vehicles; skis

191. AU - Hanamoto, B.
TI - Positive pitch control for multi-unit articulated vehicles
SO - Journal of Terramechanics, vol. 6, no. 2, June 1969, p 29-34
LA - Eng
IT - vehicles; snow vehicles

192. AU - Beard, W.H.
TI - Polar transportation equipment - four-wheel drive vehicle with high flotation tires
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical report, R-630, June 1969, 14 p
LA - Eng
IT - topographic features; Antarctica-McMurdo Station; snow vehicles; cold weather tests

193. AU - Moser, E.H., Jr.; Stehle, N.S.
TI - Snow trails for wheeled vehicles
SO - Polar Record, vol. 14, no. 93, Sept 1969, p 815-817
LA - Eng
IT - snow roads; bearing capacity

194. AU - Lavrent'ev, V.; Lipovskii, L.
TI - Experimental IL-E167 Snowmobile
OTI - (Opytnyi avtomobil'-snegokhod ZIL-E167)
SO - Avtomobil'nyi transport, No. 2, Feb 1967, p 39-40
LA - Rus
IT - snow vehicles

195. AU - Buzuluk, O.; Pinchuk, S.
TI - The North is tamed by man
OTI - (Sever pokoriaetsia cheloveku)
SO - Tyl i snabzhenie sovetskikh vooruzhennykh sil, No. 2, Feb 1969, p 85-88
LA - Rus
IT - Arctic regions; transportation; vehicles

196. AU - Kemshall, R.
TI - Tractors on ice
SO - Canadian Mining Journal, vol. 90, no. 9, Sept 1969, p 64
LA - Eng
IT - frozen lakes; ice bearing capacity; snow vehicles; trafficability

197. AU - Panov, V.I.
TI - Interaction between Caterpillar band and snow cover
OTI - (Issledovanie vzaimodeistviia gusenichnogo dvizhitelia so snezhnym pokrovom)
SO - Gor'kii. Politekhnicheskii Institut. Trudy, vol. 21, no. 1, 1965, p 43-51
LA - Rus
IT - snow vehicles; trafficability

198. AU - IAnkin, V.M.
TI - Tractive-adhesive properties of Caterpillar Tractors on snow
OTI - (Tiagovo-stsepnye svoistva traktorov pri rabote zimoi)
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, No. 2, 1969, p 7-9

LA - Rus
IT - snow cover; traction; adhesive strength

199. AU - Thomson, R.B.
TI - Landrover for Antarctic use
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 392-394, Tokyo, Japan, Ministry of Education, 1968
LA - Eng
IT - snow vehicles; performance; cold weather operation

200. AU - Heine, A.J.
TI - Field use of motor toboggans
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 387-391, Tokyo, Japan, Ministry of Education, 1968
LA - Eng
IT - snow vehicles; performance

201. AU - Nishibori, E.
TI - Report on the Model KD-60 oversnow vehicles
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 348-381, Tokyo, Japan, Ministry of Education. 1968
LA - Eng
IT - design criteria; snow vehicles; cold weather operation; traverses

202. TI - New French polar vehicles HB 40
OS - Expeditions Polaires Francaises
SO - Antarctic Treaty Meeting of experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 339-347, Tokyo, Japan. Ministry of Education. 1968
LA - Eng
IT - snow vehicles

203. AU - Brown, A.M.; Smith, F.A.
TI - Small caravan for Antarctic traverses
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 329-338, Tokyo, Japan, Ministry of Education, 1968
LA - Eng
IT - heating; traverses; snow vehicles; portable shelters

204. AU - Brown, A.M.; Smith, F.A.
TI - Experience with Nodwell RN110B Tracked Carrier
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, June 3-8, 1968. Records, Part II, p 321-328, Tokyo, Japan, Ministry of Education, 1968
LA - Eng
IT - snow vehicles; tracked vehicles

205. AU - Vasil'ev, A.P.; Ivanov, IU.P.
TI - Safety of motor-vehicle traffic in winter
OTI - (Obespechenie bezopasnosti dvizheniia avtomogilei zimoi)
SO - Avtomobil'nye dorogi, No. 12, Dec 1968, p 16-17
LA - Rus
IT - roads; icing; snowdrifts; snow removal equipment; ice prevention

206. AU - Smieja, L.R.
TI - Snow vehicle with side enclosed passenger compartment
SO - U.S. Patent Office. Patent, Oct 8, 1968, 7 p
LA - Eng
IT - snow vehicles

207. AU - Nikulin, V.
TI - Motorized snow vehicles
OTI - (Liubiteliam motosnegokhodov)
SO - Sel'skii mekhanizator, vol. 11, no. 6, June 1968, p 15
LA - Rus
IT - snow vehicles

208. AU - Cheremisinov, M.M.
TI - New Caterpillar Truck for driving in swamp and snow
OTI - (Novyi bolotosnegokhod)
SO - Mekhanizatsiia stroitel'stva, vol. 23, no. 4, 1966, p 28
LA - Rus
IT - snow vehicles

209. AU - Lipman, G.; Turgenev, G.
TI - Snow vehicles
OTI - (Snegokhody)
SO - Moscow, Znanie, 1965, 32 p
LA - Rus
IT - snow vehicles

210. AU - Klochkov, IU.
TI - Motion of a Caterpillar-Tractor on snow when making a turn
OTI - (Dvizhenie gusenichnogo traktora na povorote po snegu)
SO - Tekhnika v sel'skom khoziaistve, vol. 26, no. 2, Feb 1966, p 80-81
LA - Rus
IT - snow vehicles; tracked vehicles

211. AU - Yong, R.N.; Fattah, E.A.; Youssef, A.
TI - Performance of a passive grouser-track system
SO - Society of Automotive Engineers Technical Paper No. 760654. Also published in SAE Transactions, 1976
IT - vehicle performance: vehicle performance tests

212. AU - Carver, G.C.
TI - Truck chassis frame considerations in equipment mounting
SO - Society of Automotive Engineers Technical Paper No. 760291. Also published in SAE Transactions, 1976

IT - truck design; winches; utility vehicles; snow vehicles; frames

213. AU - Kho, J.K.H.; Newman, J.A.
TI - Braking characteristics of the recreational snowmobile
SO - Society of Automotive Engineer Technical Paper No. 730783
IT - brakes; snow vehicles

214. AU - Prasad, K.K.
TI - A study of snowmobile drive systems
SO - Society of Automotive Engineers Technical Paper No. 730782
IT - automatic transmissions; snow vehicles

215. AU - Schanhals, L.R.; Pershing, R.L.
TI - Performance testing and criteria for snowmobile seat cushions
SO - Society of Automotive Engineers Technical Paper No. 730770
IT - human engineering; impact tests; seats; snow vehicles

216. AU - Wood, W.A.
TI - Design and development of the Kitty Cat Child's Snowmobile
SO - Society of Automotive Engineers Technical Paper No. 730756
IT - snow vehicles

217. AU - Keller, A.T.
TI - Jackknife control for tractor-trailer
SO - Society of Automotive Engineers Technical Paper No. 730643
IT - truck trailers; vehicle safety

218. AU - Ward III, H.M.; Miller, G.E.; Stephenson, D.K.
TI - Outboard marine corporation's production rotary-combustion snowmobile engine
SO - Society of Automotive Engineers Technical Paper No. 730119. Also published in SAE Transactions, Vol. 82, 1973
IT - engine cooling; rotary combustion engines; seals; snow vehicles

219. AU - Fujikawa, T.
TI - Technical aspects of 2-stroke cycle snowmobile engines
SO - Society of Automotive Engineers Technical Paper No. 720747
IT - combustion; snow vehicles; two stroke cycle engines

220. AU - Nordstrom, D.A.
TI - PolyTrac - a unique approach to engineering problems
SO - Society of Automotive Engineers Technical Paper No. 720745
IT - snow vehicles; plastics

221. AU - Newman, J.A.; Cheng, S.; Suri, V.K.
TI - A hybrid computer simulation of the recreational snowmobile
SO - Society of Automotive Engineers Technical Paper No. 720261. Also published in SAE Transactions, Vol. 81, 1972
IT - computer simulation; snow vehicles; suspension systems; vehicle dynamics; vibration

222. AU - Hazzard, H.I.
TI - The McCulloch BP-399-T snowmobile engine and its installation
SO - Society of Automotive Engineers Technical Paper No. 720260
IT - gasoline engines; snow vehicles; two stroke cycle engines; vibration

223. AU - Kummen, H.
TI - Practical snowmobility for ordnance vehicles
SO - Society of Automotive Engineers Technical Paper No. 720259. Also published in SAE Transactions, Vol. 81, 1972
IT - cold weather operation; military vehicles; mobility research; snow vehicles

224. AU - Karleen, C.I.
TI - Snowmobiling with associated maxillofacial injuries
SO - Society of Automotive Engineers Technical Paper No. 720258
IT - crash research; human factors injuries; snow vehicles

225. AU - Janowski, W.R.
TI - Arctic operations with the twister testbed
SO - Society of Automotive Engineers Technical Paper No. 710715
IT - cold weather operation; snow vehicles

226. AU - Smith, J.L.
TI - Product verification tests on a snowmobile
SO - Society of Automotive Engineers Technical Paper No. 710711
IT - snow vehicles; stresses

227. AU - Newman, J.A.; Beale, D.J.
TI - The snowmobile suspension - a high speed motion picture study
SO - Society of Automotive Engineers Technical Paper No. 710667
IT - snow vehicles; suspension systems

228. AU - Lake, L.
TI - Technical aspects of the transition from motorcycles to snowmobiles
SO - Society of Automotive Engineers Technical Paper No. 710665
IT - motorcycles; snow vehicles

229. AU - Hazzard, H.I.
TI - Recreational vehicle engines and their installation
SO - Society of Automotive Engineers Technical Paper No. 710664. Also published in SAE Transactions Vol. 80, 1971
IT - aircooled engines; snow vehicles; two stroke cycle engines

230. AU - Haines, W.M.
TI - A new approach to positive drive snowmobile tracks
SO - Society of Automotive Engineers Technical Paper No. 710231
IT - snow vehicles

231. AU - Janosi, Z.J.; Liston, R.A.; Martin, L.A.; Sloss, D.A.
TI - Commercial off-road vehicles
SO - Society of Automotive Engineers Technical Paper No. 700012
IT - agricultural machinery; construction equipment design; logging equipment; snow vehicles

232. AU - Eskelson, R.W.
TI - Heavy-duty over-snow and off-highway vehicles
SO - Society of Automotive Engineers Technical Paper No. 690573
IT - amphibious vehicles; military vehicles; snow vehicles

233. AU - Eskelson, R.W.
TI - Parameters of over-snow vehicle design
SO - Society of Automotive Engineers Technical Paper No. 680030
IT - soil mechanics; utility vehicles

234. AU - Brown, R.J.
TI - Snow Studies, Vol. 2, 1975-October, 1979 (A Bibliography with Abstracts)

235. AU - Cochrane, H.C.; Knowles, B.A.
TI - Assessment
SO - Colorado University, Boulder; Institute of Behavioral Science; Boulder, CO, 1975, PB 242977

236. AU - Parfenov, N.
TI - And into the cold, and into snowstorm
OS - Foreign Technology Div., Wright-Patterson AFB, OH
SO - Unedited machine translation of Starshina Serzhant, (USSR) n; (136), FTD-ID(RS)T-0075-77, p 22-23, 1972.

237. AU - Ross, B.
TI - Penetration studies of ice with application to Arctic and Subarctic Warfare - Phase II Study
OS - Stanford Research Inst., Menlo Park, CA, Naval Warfare Research Center
SO - Final Rept. Report Number NWRC-3072, Contract: NOHR-2332, 1 Jan-31, Dec 1966,

238. AU - Knight, S.J.; Smith, N.H.
TI - Forecasting trafficability of soils; a pilot study of soils subjected to freezing and thawing
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Technical memo, Report Number AEWES-TM-3-331-7, Jun 1964, 89 p

239. TI - Military evaluation of geographic areas, reports on activities to April 1963
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Report Number AEWES-Misc-Paper-3-610, Dec 1963, 237 p

240. AU - Hansen, R.W.
TI - Snow transport equipment - tractor-mounted snowplow tests
OS - Naval Civil Engineering Lab, Port Hueneme, CA
SO - Report Number NCEL-TN-610, 29 June 1964, 10 p

241. AU - Horne, W.B.; Yager, T.J.; Sleeper, R.K.; Smith, E.G.; Merritt, L.R.
TI - Preliminary test results of the Joint FAA-USAF-NASA Runway Research Program. Part 2: Traction measurements of several runways under wet, snow covered, and dry conditions with a Douglas DC-9, a diagonal-braked vehicle, and a mu-meter
OS - National Aeronautics and Space Administration. Langley Research Center, Langley Station, VA.
SO - Report Number NASA-TM-X-73910, May 1977, 341 p

242. AU - Kolb, C.R.; Holmstrom, F.M.G.
TI - Review of research on military problems in cold regions. Symposium. Presented at Fifteenth Alaskan Science Conference, American Association for the Advancement of Science, College, Alaska. 31 August-4 September 1964
OS - Arctic Aeromedical Lab, Fort Wainwright, AK
SO - Report Number AAl-TDR-64-28, Dec 1964, 169 p

243. TI - Marsh screw amphibian
OS - Chrysler Corp, Detroit, MI
AU - Gorton, J.V.; Neumeyer, M.J.
SO - Contract: NOBS4558, 1963, 180 p
IT - amphibious vehicles; performance-engineering; swamps-amphibious vehicles

244. AU - Shamburger, J.H.; Kolb, C.R.; Woods, H.K.
TI - Terrain evaluation of a portion of the Fort Greely Automotive Test Course
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Report Number AEWES-Misc-Paper-3-861, Dec 1966, 88 p

245. AU - Kaifesh, M.W.
TI - Self-cleaning track snow pad for track laying vehicles
OS - Department of the Army
SO - Report Number PAT-APPL-734-280

246. AU - Brown, R.J.
TI - Snow studies. Volume 1. 1964-1974 (A bibliography with abstracts)
SO - Report for 1964-74, Oct 76, 216 p

247. AU - Kihlgren, B.
TI - Snow plow investigations
OS - Cold Regions Research and Engineering Lab, Hanover, NH
SO - Trans. of Statens Vaginstitut, Stockholm. Rapport (Sweden) number 38, 1961, 1970, 48 p

248. AU - Dykins, J.E.; Coffin, R.C., Jr.; Moser, E.H., Jr
TI - Compacted-snow parking area for the 1960 Olympic Winter Games
OS - Naval Civil Engineering Lab, Port Hueneme, CA
SO - Report Number NCEL-TN-347, 12 Aug 1958, 40 p

249. AU - Abele, G.; Gow, A.J.
TI - Compressibility characteristics of compacted snow
OS - Cold Regions Research and Engineering Lab, Hanover, NH
SO - Report Number CRREL-76-21, Jun 1976, 57 p

250. AU - Cronin, J.E.
TI - Earth science related environmental factors in polar region construction
OS - Naval Civil Engineering Lab, Port Hueneme, CA
SO - Report Number CEL-TN-1406, Nov 1975, 47 p

251. AU - Brown, R.J.
TI - Snow studies (A bibliography with abstrcts)
SO - Report for 1964-Jul 1975

252. AU - Abele, G.; Gow, A.J.
TI - Compressibility characteristics of undisturbed snow
OS - Cold Regions Research and Engineering Lab, Hanover, NH
SO - Report Number CRREL-RR-336, 1975

253. AU - Meyer, M.P.
TI - A bibliography with abstracts of U.S. Army Engineer Waterways Experiment Station publications related to vehicle mobility
OS - Army Waterways Experiment Station, Vicksburg, MS.
SO - Report Number PSTIAC Report No. 3, Aug 1976, 430 p

254. TI - Report on the symposium on snowmobiles and the environment held at Hanover, N.H., on March 3-5, 1972
SO - Environmental Protection Agency, Washington, DC, 1972, 83 p

255. TI - Proceedings of the International Congress on Automotive Safety (2nd), held on July 16-18, 1973, at Hotel St. Francis, San Francisco, CA. Volume II. Recreational Vehicle Safety
SO - National Motor Vehicle Safety Advisory Council, Washington, DC, 1973, 372 p, PB227836

256. AU - Colbeck, S.C.
TI - Theory of metamorphism of wet snow
OS - Cold Regions Research and Engineering Lab, Hanover, NH
SO - Report Number CRREL-RR-313, Dec 1973, 19 p

257. AU - Lodico, N.J.
TI - Environmental effects of off-road vehicles. A review of the literature
OS - Department of the Interior, Washington, DC, Research Services Branch

SO - Report Number DOI-RSB-73-01, Sep 1973, 121 p

258. AU - Thompson, W.J.
TI - Report of an experiment examining the air cushion concept in a logistical role in the Arctic, 1972
OS - Army Alaska, APO, Seattle

259. AU - Schreiner, B.G.
TI - Trafficability of snow in Arctic and Subarctic regions
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Report Number AEWES-Misc-Paper-4-713, 1965, 20 p

260. TI - 4,000-pound-capacity rough-terrain forklift truck
OS - Pittsburgh Univ., Washington, DC, Research Staff, 1967, 11 p
SO - Contract Rept.: DA-49-186-AMC-214(D), Project Rept.: DA-1-G-643324-D-586, 1967, 11 p

261. AU - McKnight, A.J.; Adams, B.B.
TI - Driver education task analysis. Volume II: Task analysis methods
OS - Human Resources Research Organization, Alexandria, VA.
SO - Report Number HUMRRO-IR-D1-70-1, Contract Report FH-11-7336, 1970, 46 p

262. TI - Road sweepers
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
Final report on materiel test procedure
SO - Report Number MTP-9-3-125, 1970, 15 p

263. AU - Horne, W.B.; Phillips, W.P.; Sparks, H.C.; Yager, T.J.
TI - Comparison of aircraft and ground vehicle stopping performance on dry, wet, flooded, slush-, snow-, and ice-covered runways final report
OS - National Aeronautics and Space Administration. Langley Research Center, Langley Station, VA
SO - Report Number NASA-TN-D-6098; L-7565, 1970, 197 p

264. TI - Investigation of snow compaction methods and equipment conducted for engineer research and development laboratories, fiscal year 1949. Appendix. Tables, drawings and photographs. Description of specialized procedures. Plan of test
OS - Arctic Construction and Frost Effects Lab., Boston, MA, 1949, 212 p

265. TI - Investigation of snow compaction methods and equipment conducted for engineer research and development laboratories, fiscal year 1949
OS - Arctic Construction and Frost Effects Lab., Boston, MA
Report of Investigations, Jun 1949, 216 p

266. AU - Bender, J.A.
TI - Testing of a compacted snow runway
OS - Snow, ice, and Permafrost Research Establishment, Wilmette, IL
SO - Report Number SIPRE-TR-42, 1956, 38 p

267. TI - Summary of snow compaction tests 1952-53, Kapuskasing, Canada
OS - Snow, Ice, and Permafrost Research Establishment, Wilmette, IL
SO - Report Number SIPRE-SR-7, 1954, 24 p

268. AU - Stehle, N.S.
TI - Snow compaction - investigation of metamorphism of snow
OS - Naval Civil Engineering Lab., Port Hueneme, CA
SO - Report Number NCEL-TR-706, Dec 1970, 29 p

269. AU - Walker, G.E.; Garland, L.A.
TI - Field tests of winterized equipment
OS - SR and TC Snow Removal and Ice Control Ltd., Ottawa, Ontario
SO - Apr 1969, 200 p

270. AU - Yager, T.J.; Phillips, W.P.; Horne, W.B.; Sparks, H.C.
TI - A comparison of aircraft and ground vehicle stopping performance on dry, wet, flooded, slush-, snow-, and ice-covered runways
OS - National Aeronautics and Space Administration, Langley Research Center, Langley Station, VA
SO - Monitor: NASA-TN-D-6098, Final Rept., Nov 1970, 199 p

271. AU - Kartashov, S.N.
TI - Physical and mechanical properties and the forming of the snow-firn cover of eastern Antarctica
OS - Cold Regions Research and Engineering Lab., Hanover, NH
SO - Translation of mono. Fiziko-Mekhanicheskie Svoistva i Protsessy Formirovaniya Snezhnofirnogo Pokrova Vostochnoi Antarktidii, Moscow, 1962, 107 p

272. AU - Bilello, M.A.; Bates, R.E.; Riley, J.
TI - Physical characteristics of the snow cover, Fort Greely, Alaska, 1966-67
OS - Cold Regions Research and Engineering Lab., Hanover, NH
SO - Report Number CRREL-TR-230, Sep 1970, 38 p

273. AU - Bilello, M.A.
TI - Relationships between climate and regional variations in snow-cover density in North America
OS - Cold Regions Research and Engineering Lab., Hanover, NH
SO - Report Number CRREL-RR-267, Dec 1969, 24 p

274. AU - Tobiasson, W.; Grant, J.
TI - Vehicular access to undersnow facilities
OS - Cold Regions Research and Engineering Lab., Hanover, NH
SO - Report Number CRREL SR-117, 1969

275. TI - Transport vehicles
OS - Library of Congress, Aerospace Technology Division, Washington, DC
SO - Surveys of foreign scientific and technical literature Report Number ATD-69-70, 30 Jun 1969, 64 p

276. AU - Hogbin, L.E.
TI - Damage to roads by studded tyres
OS - Road Research Lab., Crowthorne, England
SO - Report Number RRL-LR208, 1968, 12 p

277. AU - Paige, R.A.
TI - Ice and snow terrain features, McMurdo Station, Antarctica
OS - Naval Civil Engineering Lab., Port Hueneme, CA
SO - Report Number NCEL-TN-840, Sep 1966, 22 p

278. AU - Terry, C.W.
TI - Investigation of new instrumentation and techniques for rapid evaluation of load bearing capacity of temporary roads, runways and compacted areas (snow and soil)
OS - Naval Civil Engineering Lab., Port Hueneme, CA
SO - Report Number NCEL-TN-852, Oct 1966, 21 p

279. AU - Stehle, N.S.; Sherwood, G.E.
TI - Surface hardening of compacted snow in Antarctica
OS - Naval Civil Engineering Lab., Port Hueneme, CA
SO - Report Number NCEL-TN-841, Sep 1966, 14 p

280. AU - Stehle, N.S.
TI - Surface hardening of compacted snow by controlled solar radiation absorption
OS - Naval Civil Engineering Lab., Port Hueneme, CA
SO - Report Number NCEL-TN-790, Nov 1965, 20 p

281. AU - Maloney, J.C.
TI - Effects of vehicular operation on contaminated slushy roads
OS - Army Nuclear Defense Lab., Edgewood Arsenal, MD
SO - Report Number NDL-TM-45, Jul 1968, 29 p

282. TI - Evaluation of diesel engined jeep (Japan)
OS - Michigan Technological Univ., Keweenaw Research Center, Houghton, MI, 1967, 42 p

283. AU - Abele, G.; Frankenstein, G.
TI - Snow and ice properties as related to roads and runways in Antarctica
OS - Cold Regions Research and Engineering Lab., Hanover, NH
SO - Report Number CRREL-TR-176, Oct 1967, 45 p

284. AU - Donovan, D.L.
TI - Fuel systems for recreational vehicles

SO - SAE Paper 700164 for meeting Jan 12-16, 1970, 9 p
IT - automobile engines, carburetors

285. AU - Moser, E.H., Jr.; Sherwood, G.E.
TI - Compacted-snow runways in Antarctica Deep Freeze 65 trials
OS - Naval Civil Engineering Lab., Port Hueneme, CA
SO - Report Number TR-R-480, Sep 1966, 2 p

286. TI - Cold Regions Research and Development Symposium, Hanover, NH, March 17-18, 1964
OS - Cold Regions Research and Engineering Lab., Hanover, NH
SO - Report Number SR-80, 1964

287. AU - Abele, G.
TI - Construction of a snow runway at Camp Century for wheel landings with lightweight aircraft
OS - Cold Regions Research and Engineering Lab., Hanover, NH
SO - Monitor: CRREL-SR62, Aug 1964, 2 p

288. AU - Stearns, S.R.
TI - Flexural properties of snow and snow-ice
OS - Dartmouth College, Dept. of Civil Engineering, Hanover, NH
SO - Special Report, 1964

289. AU - Rikhter, G.D.
TI - Snow cover. Its formation and properties
OS - Cold Regions Research and Engineering Lab., Hanover, NH
SO - Translation of Snezhnii Pokrov, Ego Formirovanie i Svoistva, Moscow, 1945. Report Number CRREL-Trans-6, Aug 1954, 61 p

290. AU - Mironov, A.
TI - Hercules of the snow ocean
OS - Army Foreign Science and Technology Center, Washington, DC
SO - Translation from Krasnaya Zvezda (USSR) 13 Mar 1965. Report Number FSTC-381-T65-321, Jul 1965, 6 p

291. AU - Liston, R.A.; Hegedus, E.
TI - Dimensional analysis of load sinkage relationships in soils and snow
OS - Army Tank Automotive Center, Land Locomotion Lab., Warren, MI.
SO - Report Number LL-100, Dec 1964, 58 p

292. TI - A review of studies relating meteorological parameters to snow conditions on the Greenland Ice Cap
OS - Air Force Cambridge Research Labs., Bedford, MA, 1962, 17 p

293. AU - Garrett, K.
TI - Stonefield cross-country vehicles
SO - Automot Eng, London, vol. 3, no. 4, Aug-Sep 1978, p 30-31
IT - vehicles; off road operation

294. AU - Megerlin, F.E.; Smejkal, R.
TI - Application of hydrostatic transmissions in mechanical engineering
SO - Linde Rep Sci Technol, no. 25, 1977, p 34-45
IT - automobile transmissions; hydraulic; agricultural machinery; hydraulic equipment; industrial trucks-hydraulic equipment; mechanical engineering

295. AU - Veres, R.E.
TI - Tire noise investigation and test method
OS - Ford Motor Co.
SO - SAE Preprint, no. 760152 for meeting Feb 23-27, 1976, 20 p
IT - automobiles-tires; noise abatement

296. AU - Atherton, D.L. Eastham, A.R.
OS - Queen's Univ., Kingston, Ontario
SO - IEEE Trans Magn, vol. MAG-11, no. 2 Mar 1975, for meeting, Argonne National Lab., IL, and National Accel Lab., Batavia, IL, Sep 30-Oct 2, 1974, p 627-632
IT - vehicles-magnetic suspension; superconducting magnets

297. AU - Senac, G.
TI - Tests with turbine train RTG 01
SO - Fr Railw Tech, vol. 17, no. 4 1974, p 123-140
IT - locomotives; gas turbine

298. AU - Atherton, D.L.; Eastham, A.R.
TI - Guidance of a high speed vehicle with electrodynamic suspension
OS - Queen's Univ., Kingston, Ontario
SO - IEEE Trans Magn vol. MAG-10, no. 3, Sep 1974, p 413-416
IT - vehicles-magnetic suspension; electric motors; synchronous

299. AU - Bekker, M.G.
TI - Tracked vehicles for the Arctic
SO - Machine Design, vol. 46, no. 13, May 30, 1974, p 20-22, 24
IT - vehicles-off road operation; soils-Muskeg; tractors-soil factors

300. AU - Zoeppritz, H.P.
OS - Phoenix Gummiwerke, Hamburg-Harburg, Germany
SO - Gummi, Asbest, Kunstst, vol. 26, no. 11, Nov 1973, p 950, 952, 954, 956
IT - tires-traction; automobiles-riding qualities; roads and streets

301. AU - Carpentier, N.
TI - Design and application of skidozer snowmobile trail grooming equipment
OS - Bombardier Ltd

SO - SAE Preprint no. 730755 for meeting Sep 10-13, 1973, 12 p
IT - vehicles-off road operation; snow and snowfall-trafficiability)

302. AU - Nault, J.
TI - Case for specialized snow trucks
SO - Better Roads, vol. 41, no. 10, Oct 1971, p 17-19
IT - snow plows

303. TI - The automatic steering of vehicles. An experimental system fitted to a DS 19 Citroen car
SO - Gt Brit. Min Transp. Road Res Lab., RRL Rep LR 340, 1970, 26 p
IT - automobiles-steering systems; servomechanisms-hydraulic

304. AU - Janosi, Z.; Liston, R.A.; Martin, L.A.; Sloss, D.A.
TI - Snow mobility design tolerates no compromise with environment.
SO - SAE Journal of Automotive Engineering, vol. 78, no. 9, Sept 1970, p 46-47
IT - off road operation; snow-trafficiability

305. AU - Hazzard, H.I.
TI - The McCulloch BP-399-T Snowmobile Engine and its installation
SO - Society of Automotive Engineers Technical Paper No. 720260
IT - gasoline engines; snow vehicles; two stroke cycle engines; vibration

306. AU - Newman, J.A.; Cheng, S.; Suri, V.K.
TI - A hybrid computer simulation of the recreational snowmobile
SO - Society of Automotive Engineers Technical Paper No. 720261. Also published in SAE Transactions Vol. 81, 1972
IT - computer simulation; snow vehicles; suspension systems; vehicle dynamics; vibration

307. AU - Fujikawa, T.
TI - Technical aspects of 2-stroke cycle snowmobile engines
SO - Society of Automotive Engineers Technical Paper No. 720747
IT - combustion; snow vehicles; two stroke cycle engines

308. AU - Nordstrom, D.A.
TI - PolyTrac - a unique approach to engineering problems
SO - Society of Automotive Engineers Technical Paper No. 720745
IT - snow vehicles; plastics

309. AU - Haines, W.M.
TI - A new approach to positive drive snowmobile tracks
SO - Society of Automotive Engineers Technical Paper No. 710231
IT - snow vehicles

310. AU - Newman, J.A.; Beale, D.J.
TI - The snowmobile suspension - a high speed motion picture study
SO - Society of Automotive Engineers Technical Paper No. 710667
IT - snow vehicles; suspension systems

311. AU - Ward H.M., III; Miller, G.E.; Stephenson, D.K.
TI - Outboard Marine Corporation's production rotary-combustion snowmobile engine
SO - Society of Automotive Engineers Technical Paper No. 730119. Also published in SAE Transactions, Vol. 82, 1973
IT - engine cooling; rotary combustion engines; seals; snow vehicles

312. AU - Wood, W.A.
TI - Design and development of the Kitty Cat Child's Snowmobile
SO - Society of Automotive Engineers Technical Paper No. 730756
IT - snow vehicles

313. AU - Hollnagel, H.E.
TI - Snowmobile ski suspensions
SO - Society of Automotive Engineers Technical Paper No. 740677
IT - suspension systems; systems; safety; design

314. AU - Hazzard, H.I.
TI - Recreational vehicle engines and their installation
SO - Society of Automotive Engineers Technical Paper No. 710664. Also published in SAE Transactions, Vol. 80, 1971
IT - aircooled engines; snow vehicles; two stroke cycle engines

Chapter II - Rolling resistance.

CHAPTER II

1. AU - Lidstrom, M.
TI - Aircraft rolling resistance in loose dry snow; a theoretical analysis
SO - Sweden, Statens vag- och trafikinstitut. Rapport, 1979, No. 173A, 30 p
LA - Eng
IT - theories; aircraft landing areas; airplanes; snow cover effect; friction; snow strength; snow compression; loads-forces; snow physics

2. AU - Kihlgren, B.
TI - Rolling resistance of aircraft wheels in dry snow
SO - National Swedish Road and Traffic Research Institute. Report, 1977-VTI-128, 36 p., in Swedish with English summary
LA - Swe, Eng
IT - airplanes; vehicle wheels; friction; snow cover effect

3. AU - Taylor, D.
TI - Tundra truck
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical report, Sept 30, 1960-R-94, 35 p
LA - Eng
IT - performance

4. AU - Knight, R.E.
TI - Tire parameter effects on truck fuel economy
SO - Society of Automotive Engineers, Technical Paper No. 791043
IT - fuel economy; tires; truck operation-truck performance; vehicle performance tests

5. AU - Bechtold, R.L.
TI - Ingredients of fuel economy
SO - Society of Automotive Engineers, Technical Paper No. 790928
IT - fuel economy; energy conservation; regulations; passenger car design; aerodynamics

6. AU - Tarpinian, H.D.; Nybakken, G.H.; Mishory, J.
TI - A fuel saving passenger tire
SO - Society of Automotive Engineers, Technical Paper No. 790726
IT - fuel economy; rubber-synthetic rubber; temperature measurement; thermal measurements; tires

7. AU - Velinsky, S.A.; White, R.A.
TI - Increased vehicle energy dissipaton due to changes in road roughness with emphasis on rolling losses
SO - Society of Automotive Engineers, Technical Paper No. 790653
IT - computer simulation; damping; fuel consumption; roads

8. AU - Brown, C.; Gusakov, I.
TI - A mathematical technique for predicting equilibrium rolling resistance of tires from short duration tests
SO - Society of Automotive Engineers, Technical Paper No. 790118
IT - tires; computer simulation

9. AU - Tillinger, D.E.; Weber, J.R.; Strowe, R.H.
TI - Inter-test facility rolling resistance correlation via control tire concept and computer multiple regression modeling
SO - Society of Automotive Engineers, Technical Paper No. 790117
IT - computer applications; fuel economy; graphic methods; mathematical analysis; regression analysis

10. AU - Clark, S.K.; Schuring, D.J.
TI - Interlaboratory tests for tire rolling resistance
SO - Society of Automotive Engineers, Technical Paper No. 780636
IT - tires

11. AU - Lloyd, S.E.
TI - Development of a flat surface tire rolling resistance facility
SO - Society of Automotive Engineers, Technical Paper No. 780635
IT - fuel economy; tires

12. AU - Lippmann, S.A.; Oblizajek, K.L.; Metters. J.J.
TI - Sources of rolling resistance in radial ply tires
SO - Society of Automotive Engineers, Technical Paper No. 780258
IT - energy conservation; energy conversion; thermal measurements; tires

13. AU - DeRaad, L.W.
TI - The influence of road surface texture on tire rolling resistance
SO - Society of Automotive Engineers, Technical Paper No. 780257
IT - roads; tires

14. AU - Viergutz, O.J.; Wakeley, H.G.; Dowers, L.
TI - Automobile in-use tire inflation survey
SO - Society of Automotive Engineers, Technical Paper No. 780256
IT - tires; safety; maintainability; field tests

15. AU - Smith, J.R.; Tracy, J.C.; Potter, D.S.
TI - Tire rolling resistance - a speed dependent contribution
SO - Society of Automotive Engineers, Technical Paper No. 780255
IT - friction; tires

16. AU - McGrew, J.F.
TI - A multimode vehicle performance instrument
SO - Society of Automotive Engineers, Technical Paper No. 780149
IT - accelerometers; vehicle performance tests

17. AU - Faherty, K.F.
TI - Civil engineering considerations in earth moving
SO - Society of Automotive Engineers, Technical Paper No. 770523
IT - construction equipment operation; cost analysis; vehicle performance; tires

18. AU - Shepherd, P.D.
TI - The effect of a tire's reinforcing material on rolling resistance
SO - Society of Automotive Engineers, Technical Paper No. 770333
IT - fuel consumption; tires; composite materials

19. AU - Dayman, B., Jr.
TI - Tire rolling resistance measurements from coast-down tests
SO - Society of Automotive Engineers, Technical Paper No. 760153
IT - tires; vehicle performance tests

20. AU - Glemming, D.A.; Bowers, P.A.
TI - Tire testing for rolling resistance and fuel economy
SO - Society of Automotive Engineers, Technical Paper No. 750457
IT - tires; ride evaluation; fuel consumption

21. AU - Thomas, P.R.; Till, R.H.
TI - A simplified method for the measurement of vehicular rolling resistance
SO - Society of Automotive Engineers, Technical Paper No. 740423. Also published in SAE Transactions, Vol. 83, 1974
IT - accelerometers; friction; instrumentation; test equipment

22. AU - Oblizajek, K.L.; Lippmann, S.A.
TI - Predicting the tread wear of nondriven front axle tires from laboratory measurements
SO - Society of Automotive Engineers, Technical Paper No. 740073
IT - tires; rubber-synthetic rubber; tests; front wheel drive

23. AU - White, R.A.; Korst, H.H.
TI - The determination of vehicle drag contributions from coast-down tests
SO - Society of Automotive Engineers, Technical Paper No. 720099. Also published in SAE Transactions, Vol. 81, 1972
IT - aerodynamics; mathematical analysis; tests; tires; vehicle performance tests; wind tunnel testing

24. AU - Floyd, C.W.
TI - Power loss testing of passenger tires
SO - Society of Automotive Engineers, Technical Paper No. 710576
IT - tires

25. AU - Elliott, D.R.; Klamp, W.K.; Kraemer, W.E.
TI - Passenger tire power consumption
SO - Society of Automotive Engineers, Technical Paper No. 710575.

Also published in SAE Transactions, Vol. 80, 1971
IT - tires

26. AU - McHenry, R.R.
TI - Research in automobile dynamics - a computer simulation of general three-dimensional motions
SO - Society of Automotive Engineers, Technical Paper No. 710361. Also published in SAE Transactions, vol. 80, 1971
IT - brakes; computer simulation; suspension systems; tires; vehicle dynamics

27. AU - Curtiss, W.W.
TI - Low power loss tires
SO - Society of Automotive Engineers, Technical Paper No. 690108
IT - tires

28. AU - Walter, J.D.; Conant, F.S.
TI - Energy losses in tires
OS - Firestone Tire and Rubber Company
SO - Tire Science and Technology, Vol. 2, No. 4., Nov 1974, p 235-260

29. AU - Yong, R.N.; Osler, J.C.
TI - On the analysis of soil deformation under a moving rigid wheel
SO - McGill University, Montreal, Quebec, Canada, Report No. D, 1966, 18 p

30. AU - Smith, J.L.
TI - Effects of tread pattern on the surface traction of terra-tires
SO - Army Waterways Expermental Station, Misc-Pap 27, Oct 1964, p 1967

31. AU - Lewandowski, J.
TI - The problem of testing and evaluating the rolling resistance of automobile tires
SO - Wright Patterson Air Force Base, Foreign Tech Div, Jul 1971, 22 p

32. AU - Gusakov, I.; Tapia, G.A.; Bogdan, L.
TI - Equilibrium and transient rolling resistance of truck tires measured on calspan's tire research facility
OS - Calspan Corporation, P.O. Box 235, Buffalo, NY, Washington, DC
SO - Report number: CALSPAN-ZM-5947-T-2, DOT-HS-803-812, PB-292289/6ST, Final Rept. Jan 1979, 137 p

33. AU - Schulze, K.H.; Dames, J.
TI - Treatments to improve the skidding resistance of existing bituminous surfacings
OS - Technical University of Berlin, West Germany

SO - Forschung Strassenbau und Strassenverkehrstechnik N244 Monog Ser, 1977, 48 p

34. AU - Yurko, J.
TI - The effect of wheel alignment on rolling resistance - a literature search and analysis. Technical Support Report
SO - Environmental Protection Agency, Standards Development and Support Branch, Ann Arbor, MI, Reprot Number LDTP-78-12, PB-286794/3ST, Jul 1978, 13 p

35. AU - Habercom, G.E., Jr.
TI - Tire hydroplaning (A bibliography with abstracts)
SO - Aug 1978 Bibliography, NTIS/PS-78/0776/1ST, 1978, 127 p

36. TI - Tire rolling losses and fuel economy -- an R and D Planning Workshop, 1977
SO - Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, 1977, 202 p

37. AU - Phelps, R.E.; Mingle, J.G.
TI - Pavement and tire rolling resistance coefficients for vehicle energy prediction
SO - Oregon State University, 1977, p 123-132

38. AU - Korst, H.H.; Funfsinn, M.A.
TI - Determination of effective rolling resistance by coastdown experiments on smooth and rough roads
SO - Illinois University, Urbana, 1977, p 133-141

39. AU - Tanner, J.A.; Stubbs, S.M.
TI - Behavior of aircraft antiskid braking systems on dry and wet runway surfaces: a Slip-Ratio-Controlled System with ground speed reference from unbraked nose wheel
OS - Langley Research Center, National Aeronautics and Space Administration, Langley Station, VA
SO - Report Number NASA-TN-D-8455, N77-33150/2ST

40. AU - Schuring, D.J.; Kunkel, D.
TI - Rolling resistance of truck tires as measured under equilibrium and transient conditions on Calspan's Tire Research Facility
OS - Calspan Corp., Buffalo, NY, Office of the Gusakov, I.
SO - Report Number CALSPAN-ZM-5947-T, DOT-TST-78-1, PB-274863/OST, Oct 1977, 212 p

41. AU - Adams, G.H.
TI - Tire hydroplaning (A bibliography with abstracts)
SO - NTIS/PS-77/0732/6ST, Sep 1977, 108 p

42. AU - Veith, A.G.
TI - Tire wet traction performance; the influence of tread pattern

OS - B.F. Goodrich Company
SO - Transportation Research Record, N621 Proceeding, p 113-125

43. AU - Bergman, W.
TI - Skid resistance properties of tires and their influence on vehicle control
OS - Ford Motor Company
SO - Transportation Research Record, N621 Proceeding, 1976, p 8-18

44. AU - Gusakov, I.
TI - Measuring skid resistance of passenger car tires on an indoor facility
OS - Calspan Corporation
SO - Transportation Research Record, N621 Proceeding, 1976, p 55-66

45. AU - Elsenaar, P.M.W.; Reichert, J.; Sautery, R.
TI - Pavement characteristics and skid resistance
OS - Department of State Road, Netherlands, Road Research Centre, Belgium, Electronics and Power
SO - Transportation Research Record, N622, 1976, p 1-25

46. AU - Shupe, D.S.
TI - Overview - energy and the automobile
SO - American Society of Mechanical Engineers, 345 East 47th Street, NY, ASME 77-RC-5, May 1977, 11 p

47. AU - Liles, A.W.; Fetterman, G.P.
TI - Selection of driving cycles for electric vehicles of the 1990's
SO - Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, Sep 1976, p 282-289, SAE 76065

48. AU - Clark, S.K.; Loo, M.
TI - Temperature effects on rolling resistance of pneumatic tires
OS - Michigan Univ., Ann Arbor, Transportation Systems, PB-263622, Apr 1976, 24 p

49. AU - Bobo, S.N.
TI - Akron, Ohio on June 1976
SO - Transportation Systems Center, 55 Broadway, Cambridge, MA, Washington, DC, PB-263225/5ST, Jul 1976, 88 p

50. AU - Clark, S.K.
TI - Rolling resistance forces in pneumatic tires
SO - Michigan Univ., Ann Arbor, Report Number UMICH-013662-2-I, DOT/TST-76/74, PB-262527/5ST, Jan 1976, 35 p

51. AU - Clark, S.K.; Dodge, R.N.
TI - The influence of tire geometry on the rolling efficiency of commercial vehicle tires
SO - Michigan Univ., Ann Arbor, Report Number UMICH-013622-4-T, DOT-TST-76T/25, PB-262348/6-ST, Sep 1976, 63 p

52. AU - Crum, W.B.
TI - Road and dynamometer tire power dissipation
SO - Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, Report Number SAE 750955, Oct 1975, 11 p

53. AU - Radtke, R.; Kapellen, D.; Frank, A.; Beachley, N.
TI - Simulation of automobile mileage and emissions by use of dynamic models and real component data
OS - University of Wisconsin, Madison, WI, 1976, Contract Number DOT-OS-30112

54. AU - Schuring, D.J.
TI - Rolling resistance of tires measured under transient and equilibrium conditions on Calspan's Tire Research Facility
OS - Calspan Corporation, P.O. Box 235, Buffalo, NY, Cambridge, MA, PB-251932, Mar 1976, Final Report, 245 p

55. AU - Schuring, D.J.
TI - Energy loss of pneumatic tires under freely rolling, braking, and driving conditions
SO - Tire Science and Technology, Vol. 4, No. 1, Feb 1976, p 3-15

56. AU - Cohn, C.E.
TI - Improved fuel economy for automobiles
OS - Argonne National Laboratories
SO - Technology Review, Vol. 77, No. 4, Feb 1975, p 44-52

57. TI - To select a new scraper - go back to basics
SO - Roads and Streets, Vol. 118, No. 3, Mar 1975, p 120-122

58. AU - Bernard, M.
TI - New information on resistance to forward motion at very high speed (research with the TGV.001)
SO - Revue Generale des Chemins de Fer, Vol. 93, Oct 1974, p 584-590

59. TI - Improving automobile fuel consumption
SO - Automotive Engineering, Vol. 84, No. 3, Mar 1975, p 24-26

60. AU - Crum, W.B.; McNall, R.G.
TI - Effects of tire rolling resistance on vehicle fuel consumption
OS - Ford Motor Company
SO - Tire Science and Technology, Vol. 3, No. 1, Feb 1975, p 3-15

61. AU - Seitz, N.; Hussmann, A.W.
TI - Forces and displacement in contact area of free rolling tires
OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY
SO - Report number SAE 710626, 1971, 8 p

62. AU - Blake, S.E.
TI - Stretching the gasoline gallon. An engineering approach
SO - Transportation Research News, N57, Dec 1974, p 11-15

63. AU - Clark, S.K.; Dodge, R.N.; Ganter, R.J.; Luchini, J.R.
TI - Rolling resistance of pneumatic tires
SO - Michigan University, Ann Arbor, Interim Report PB-242985, May 1975, 74 p

64. AU - Pierce, J.R.
TI - The Fuel consumption of automobiles
SO - Scientific American, Vol. 232, No. 1, Jan 1975, p 34-44

65. AU - Dobbins, J.E.
TI - Evaluation of the Brazilian run-flat tire
SO - Nevada Automotive Test Center, Carson City, NV, Warren, MI, Final Report ADA-001698, Jul 1974, 35 p

66. AU - Boehm, F.
TI - Comfort, vibration and stress of the belted tire (chain model used to compute the load-depending parameters of elastic foundation of belt on carcass)
OS - Technical Univ. of Berlin, Federal Republic of Germany, International Assn. of Vehicle System Dynamics
SO - 6th IAVSD-IUTAM Symposium on the Dynamics of Vehicles on Roads and Tracks, Sep 3-7, 1979, Technische Univ, Berlin, Berlin, Federal Republic of Germany

67. AU - Lou, A.Y.C.
TI - Relationship of tire rolling resistance to the viscoelastic properties of the tread rubber
OS - Firestone Tire & Rubber Co., Central Research Labs., 1200 Firestone Pkwy., Akron, OH
SO - Tire Science and Technology, Vol. 6, No. 3, Aug 1978, p 176-188

68. AU - Clark, S.K.
TI - Rolling resistance of pneumatic tires (general expression for rolling resistance compared with measured data)
OS - Dept. of Applied Mechanics and Eng. Science, Univ. of Michigan, Ann Arbor, MI
SO - Tire Science and Technology, Vol. 6, No. 3, Aug 1978, p 163-175

69. TI - Fighting rolling resistance in tires
SO - Machine Design, Vol. 51, No. 1, Jan 11, 1979, p 30-34

70. AU - Mamoun, M.M.
TI - On the theories of friction of solids. III. Analytical methods to determine frictional resistance
OS - School of Mech. and Aerospace Engng., Oklahoma State Univ, Stillwater, OK

SO - 1975 Design Engineering Conference held Apr 21-24 1975, NY

71. AU - Schuring, D.J.; Bird, K.D.; Martin; J.F.
TI - Power requirements for tires and fuel economy
OS - Calspan Corp., Buffalo, NY
SO - Tire Science and Technology, Vol. 2, No. 4, Nov 1974, p 261-285

72. AU - Harvey, A.F.
TI - Tyres for forklift trucks
OS - Lansing Bagnall Ltd., Basingstoke, England, Instn. Mech. Engrs.
SO - Tyres for Mechanical Handling Equipment, 1974, London, England

73. AU - Johnson, K.L.; White, I.C.
TI - Rolling resistance measurements at high loads
SO - Int. J. Mech. Sci. (GB), Vol. 16, No. 12, Dec 1974, p. 939-943

Chapter III - Traction.

CHAPTER III

1. AU - Harrison, W.L.
TI - Shallow snow performance of wheeled vehicles
SO - International Conference of the International Society for Terrain-Vehicle Systems, 5th, Detroit, MI, June 2-6, 1975, Proceedings, Vol. 2, Report Number MP 1130, Hoboken, NJ, 1976, p 589-614
LA - Eng
IT - snow compaction; analysis-mathematics; vehicles; snow compression; traction; loads-forces; snow mechanics; rubber snow friction

2. AU - Dibbern, J.S.
TI - First attempts at motor transport in Antarctica, 1907-1911
SO - Polar Record, Sep 1976-18(114), p 259-267
LA - Eng
IT - vehicles; transportation-oversnow; manhauling

3. AU - Neill, A.H., Jr.; Kondo, A.; Hinch, J.; Boyd, P.L.
TI - Traction generating potential of snow tires vs. regular tread tires on ice, snow, wet, and dry surfaces
SO - U.S. National Highway Traffic Safety Administration. Tehnical report, Jan 1978-DOT Hs-803 234, 42 p
LA - Eng
IT - rubber ice friction; rubber snow friciton; tires; traction

4. TI - Industrial Vehicles Corporation's "Bolzano Series" features integral traction, high maneuverability
OTI - La "Gamma Bolzano" dell'Iveco: veicoli a trazione integrale ad elevata manovrabilita
SO - Strade e traffico, Nov-Dec 1977-No. 262, p 4-7
LA - Ita
IT - winter maintenance; road maintenance; snow removal equipment; all terrain vehicles

5. AU - Gerdel, R.W.
TI - Some research problems in snow mechanics and thermodynamics
SO - Western Snow Conference, Sacramento, CA, April 1952. Proceedings, Report Number MP 785, p 41-44
LA - Eng
IT - research projects; snow strength; snow mechanics; snow thermal properties; thermodynamic properties

6. AU - Hanamoto, B.
TI - Effects of variation in drawbar hitch location on vehicle performance
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 237, Sep 1975, 16 p
LA - Eng
IT - all terrain vehicles; snow cover effect; noncohesive soils

7. AU - Thomas, M.W.
TI - Ground transportation for polar operations--16-wheel low-ground-pressure vehicle (LGPV-16)
SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory. Technical note, Jan 1976-N-1422, 29 p
LA - Eng
IT - vehicles; transportation-oversnow; Antarctica McMurdo Station; snow vehicles; cold weather tests; tires; design criteria

8. AU - Hanamoto, B.
TI - Traction aid for wheeled vehicles
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 232, July 1975, 9 p
LA - Eng
IT - vehicle wheels; tracked vehicles; trafficiability

9. AU - Volkov, A.E.; IAnkin, V.M.; Tsutsoev, V.I.
TI - Operating tractors in freezing weather
OTI - Osobennosti ekspluatatsii traktoro zimoi
SO - Moscow, Kolos, 1975, 128 p
LA - Rus
IT - cold weather operation; tractors; trafficiability; snow removal; traction

10. AU - Wismer, R.D.; Freitag, D.R.; Schafer, R.L.
TI - Application of similitude to soil-machine systems
SO - Prepared for presentation at the Sixth Seminar on the Similitude of Soil Machine Systems, Feb. 4-5, 1975, USDA National Tillage Machinery Laboratory. Report number MP 829, St. Joseph, MI, American Society of Agricultural Engineers, 1975, 37 p
LA - Eng
IT - models; all terrain vehicles; tires; traction; earth handling equipment; soil structure

11. AU - Browne, A.L.
TI - Traction of pneumatic tires on snow
SO - General Motors Corporation. Research publication GMR-1346, 1973, 115 p
LA - Eng
IT - analysis-mathematics; rubbersnow friction; tires; traction

12. TI - Traction tests measure pulling ability
SO - American Highways, Oct 1973-52(4), p 22-23
LA - Eng
IT - tires; road icing; sliding; traction

13. AU - Valiakhmetov, D.G.; Doskalovich, I.N.; Pavlov, V.N.
TI - Traction and adhesive properties of tractors on snow
OTI - Tiagovo-stsepnye kachestva gusenichnykh traktorov pri rabote na snegu

SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, 1973-No. 1, p 28-29
LA - Rus
IT - tractors, metal snow friction; cold weather performance

14. AU - Pozdeev, E.A.
TI - Increase in the adhesion-traction properties of tractors in winter
OTI - Povyshenie tiagovo-stsepnykh kachestv traktorov pri rabote zimoi
SO - Lesnaia promyshlennost', Oct 1972-No. 10, p 28-29
LA - Rus
IT - tractors; cold weather performance; tracked vehicles; metal snow friction

15. AU - Weiss, S.J.
TI - Traction tests in snow at the Sierra Test Site, February-March 1952
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, March 1952-N-107, 5 p
LA - Eng
IT - tests; performance; snow strength; tracked vehicles; trafficability; traction

16. AU - Horne, W.B.; Sparks, H.C.
TI - New methods for rating, predicting, and alleviating the slipperiness of airport runways
OS - American Association of Airport Executives. Northeast Chapter
SO - International Aviation Snow Symposium, April 1970-4th, 15 p
LA - Eng
IT - ice conditions; snow cover effect; slush; aircraft landing areas; friction; coefficients

17. AU - Wehner, B.
TI - Studded tires and traction
OTI - (Spikesreifen und Griffigkeit)
SO - Strasse und Autobahn, Jan 1971-22(1), p 5-10
LA - Ger
IT - tires; traction; studs; surface roughness

18. AU - Kabakov, N.S.; Chursin, L.I.
TI - Pull indices of a six-wheel-drive tractor-model under winter conditions
OTI - (Tiagovye pokazateli traktora-maketa s tremia vedushchimi mostami v zimnikh usloviiakh)
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, 1970-No. 11, p 39-40
LA - Rus
IT - cold weather operation; rubber snow friction; rubber ice friction; vehicles; traction

19. TI - Combat Traction Testing within Alaskan Air Command. Final report
OS - U.S. Air Force. Alaskan Air Command. Civil Engineering Research Division
SO - April 13, 1970, 7 p
LA - Eng
IT - aircraft landing areas; skid resistance runways

20. AU - Mellor, M.
TI - Oversnow transport
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number M III-A4, Jan 1963, 58 p, plus appends.
LA - Eng
IT - design criteria; snow vehicles; crevasse detection

21. AU - Dickinson, W.E.
TI - New salt blend has good abrasive action and fast ice-melting properties
SO - Better Roads, March 1969, 39(3), p 29-31
LA - Eng
IT - roads; traction; chemical ice prevention; ice removal; salting

22. AU - IAnkin, V.M.
TI - Tractive-adhesive properties of caterpillar tractors on snow
OTI - (Tiagovo-stsepnye svoistva traktorov pri rabote zimoi)
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, 1969-No. 2, p 7-9
LA - Rus
IT - snow cover; traction; adhesive strength

23. AU - Shirkov, A.S.; Bugakov, IU.S.; Trondin, V.P.
TI - Winter performance of the power transmission and traction systems of DT-75 Tractors
OTI - (Rabota silovoi peredachi i khodovoi sistemy traktora DT-75 zimoi)
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, 1968-No. 3, p 36-38
LA - Rus
IT - transportation; vehicles; cold weather operation

24. AU - Wong, J.; Reece, A.R.
TI - Prediction of rigid wheel performance based on the analysis of soil-wheel stresses. Part I. Performance of driven rigid wheels
SO - Journal of Terramechanics, 1967 4(1), p 81-98
LA - Eng
IT - vehicle wheels; traction; soil trafficability; computer programs; stress analysis

25. AU - Onafeko, O.; Reece, A.R.
TI - Soil stresses and deformations beneath rigid wheels
SO - Journal of Terramechanics, 1967 4(1), p 59-80
LA - Eng

IT - vehicle wheels; traction; soil trafficability

26. AU - Bekker, M.G.
TI - Evolution of approach to off-road locomotion
SO - Journal of Terramechanics, 1967 4(1), p 49-57
LA - Eng
IT - vehicles; traction

27. AU - Bedi, G.S.; Lake, W.H.
TI - Evolution of the new Ford light truck four wheel drive independent front suspension
SO - Society of Automotive Engineers, Technical Paper No. 791035
IT - suspesnion systems; truck design; four wheel drive; fuel economy; frames

28. AU - Kemper, Y.
TI - A high power density traction drive
SO - Society of Automotive Engineers, Technical Paper No. 790849
IT - automatic transmissions; friction drives; transmissions; variable-ratio transmissions; speed control

29. AU - Dull, D.; Harlow, S.; Krutz, G.
TI - Increase traction with hydraulic assist drive
SO - Society of Automotive Engineers, Technical Paper No. 790813
IT - agricultural machinery; auxiliary power; four wheel drive; front wheel drive; hydrostatic transmissions

30. AU - Taylor, J.H.; Burt, E.C.; Bailey, A.C.
TI - Tire options and consequences for four-wheel drive tractors
SO - Society of Automotive Engineers, Technical Paper No. 790526
IT - four wheel drive; tires; wheels; mobility research; agricultural machinery

31. AU - Morello, L.; Piccolo, R.; Ippolito, L.
TI - Fiat Research Center hybrid vehicle prototype
SO - Society of Automotive Engineers, Technical Paper No. 790014
IT - computer simulation; electric vehicles; energy conservation; engine controls; fuel economy

32. AU - DeRaad, L.W.
TI - The influence of road surface texture on tire rolling resistance
SO - Society of Automotive Engineers, Technical Paper No. 780257
IT - roads; tires

33. AU - Speyer, A.G.
TI - Evaluation of various passenger tire constructions for wet traction performance
SO - Society of Automotive Engineers, Technical Paper No. 780197
IT - tires

34. AU - Boyd, P.L.; Neill, A.H., Jr.; Hinch, J.
TI - The use of the mobile tire traction dynamometer in research
SO - Society of Automotive Engineers, Technical Paper No. 780196
IT - skid resistance; test equipment; tires; dynamometers

35. AU - Bader, C.; Stephan, W.
TI - Electric vehicles in Germany-present and future
SO - Society of Automotive Engineers, Technical Paper No. 780087
IT - alternative powerplants; electric vehicles; hybrid vehicles

36. AU - Wallace, F.J.; Winkler, G.; Bowns, D.E.
TI - Multi-variable control for engine transmission systems with infinitely variable ratios
SO - Society of Automotive Engineers, Technical Paper No. 770752
IT - transmissions

37. AU - Dickinson, T.W.
TI - Development of a variable speed transmission for light tractors
SO - Society of Automotive Engineers, Technical Paper No. 770749
IT - garden tractors; transmissions

38. AU - Knight, R.J.; Randle, J.N.
TI - A discussion of alternative sports car concepts
SO - Society of Automotive Engineers, Technical Paper No. 770433
IT - sports cars

39. AU - Footit, J.E.
TI - Rating tire traction effectiveness in the winter environment
SO - Society of Automotive Engineers, Technical Paper No. 770279
IT - tires; test facilities

40. AU - Browne, A.L.; Whicker, D.
TI - Design of tire tread elements for optimum thin film wet traction
SO - Society of Automotive Engineers, Technical Paper No. 770278
IT - tires; computer simulation

41. AU - Rohde, S.M.
TI - On the combined effects of tread element flexibility and pavement microtexture on thin film wet traction
SO - Society of Automotive Engineers, Technical Paper No. 770277
IT - tires; highways; mathematical analysis

42. AU - Taulu, D.
TI - FMC Bolens 1460-a new garden tractor
SO - Society of Automotive Engineers, Technical Paper No. 760704
IT - design; engine cooling; garden tractors; lawnmowers; manual transmissions

43. AU - Bohnert, L.F.; Kenady, T.D.
TI - A comparative analysis of radial and bias R-1 drive wheel tractor tires

SO - Society of Automotive Engineers, Technical Paper No. 751185
IT - tires; fuel consumption; vibration; product engineering

44. AU - Jones, T.O.; Schlax, T.R.; Colling, R.L.
TI - Application of microprocessors to the automobile
SO - Society of Automotive Engineers, Publication No. SP-393
IT - electric equipment-electronic; design; safety devices; computer applications

45. AU - Ervin, R.D.; Fancher, P.S.
TI - Preliminary measurements of the longitudinal traction properties of truck tires
SO - Society of Automotive Engineers, Technical Paper No. 741139
IT - tires; test equipment; truck operation-truck performance; dynamometers

46. AU - Bickerstaff, D.J.; Hartley, G.
TI - Light truck tire traction properties and their effect on braking performance
SO - Society of Automotive Engineers, Technical Paper No. 741137. Also published in SAE Transactions, Vol. 83, 1974
IT - tires; brakes; truck operation-truck performance

47. AU - Fancher, P.S.; Bernard, J.E.; Emery, L.H.
TI - The effects of tire-in-use factors on passenger car performance
SO - Society of Automotive Engineers, Technical Paper No. 741107
IT - tires; passenger car performance; steering; wear

48. AU - Peterson, K.G.; Smithson, F.D.; Hill, F.W., Jr.
TI - General Motors Tire Performance Criteria (TPC) Specification System
SO - Society of Automotive Engineers, Technical Paper No. 741103
IT - tires; wheels; rubber-synthetic rubber

49. AU - Lindhorst, P.K.; Andreas, J.C.
TI - Design and application of traction motors for electric vehicles
SO - Society of Automotive Engineers, Technical Paper No. 740729
IT - electric equipment-electronic; electric drives; electric propulsion; electric vehicles

50. AU - Horne, W.B.
TI - Elements affecting runway traction
SO - Society of Automotive Engineers, Technical Paper No. 740496. Also published in SAE Transactions, Vol. 83, 1974
IT - runways; brakes; rubber-synthetic rubber; surface finish

51. AU - Zillman, R.L.
TI - The Diesel Electric L-700 - A new concept in front-end loaders
SO - Society of Automotive Engineers, Technical Paper No. 730749
IT - construction equipment design; electric vehicles

52. AU - Bergman, W.; Crum, W.B.
TI - New concepts of tire wear measurement and analysis
SO - Society of Automotive Engineers, Technical Paper No. 730615.
Also published in SAE Transactions, Vol. 82, 1973
IT - surfaces; tires; wear

53. AU - Peterson, K.G.; Rasmussen, R.E.
TI - Mechanical properties of radial tires
SO - Society of Automotive Engineers, Techncial Paper No. 730500.
Also published in SAE Transactions, Vol. 82, 1973
IT - noise; ride evaluation; tires; vehicle dynamics; vibration

54. AU - Petelski, N.; Davis, L.
TI - Vcon 3006 truck-extending tire capacity through innovation
SO - Society of Automotive Engineers, Technical Paper No. 730285.
Also published in SAE Transactions, Vol. 82, 1973
IT - suspension systems; tires; truck operation-truck performacne

55. AU - Kienle, R.N.
TI - The problem of interpretation of tire skid test results - the interaction of variations in speed, water depth, and surface with tire coefficients
SO - Society of Automotive Engineers, Technical Paper No. 730281
IT - friction; tires

56. AU - Tielking, J.T.; Fancher, P.S.; Wild, R.E.
TI - Mechanical properties of truck tires
SO - Society of Automotive Engineers, Technical Paper No. 730183
IT - tires

57. AU - Beauregard, C.; McNall, R.G.
TI - Tire cornering/traction test methods
SO - Society of Automotive Engineers, Technical Paper No. 730147
IT - test equipment; tires; trailers

58. AU - Schuring, D.
TI - Rating traction and wear - a review
SO - Society of Automotive Engineers, Technical Paper No. 730145.
Also published in SAE Transactions, Vol. 82, 1973
IT - tires; wear

59. AU - Hoenes, W.W.
TI - A shiftable controlled traction differential for heavy duty trucks
SO - Society of Automotive Engineers, Technical Paper No. 720905
IT - differential gears

60. AU - Chocholek, S.E.; Ferbitz, R.C.
TI - Restrictive differentials
SO - Society of Automotive Engineers, Technical Paper No. 720903
IT - differential gears

61. AU - Medley, J.
TI - Progress in the art of coal hauling
SO - Society of Automotive Engineers, Technical Paper No. 720797
IT - mining equipment

62. AU - Herbst, G.D.
TI - Design of the Hyster C610 self-propelled vibratory compactor
SO - Society of Automotive Engineers, Technical Paper No. 720771
IT - construction equipment design; hydrostatic transmissions

63. AU - Satake, M.; Mukai, T.
TI - Traction and flotation characteristics of earthmover tires on soft soil
SO - Society of Automotive Engineers, Technical Paper No. 720743. Also published in SAE Transactions, Vol. 81, 1972
IT - soil mechanics; tires

64. AU - Allen, C.V.; Smithson, F.D.
TI - Specialized road surfaces for traction test purposes
SO - Society of Automotive Engineers, Technical Paper No. 720469. Also published in SAE Transactions, Vol. 81, 1972
IT - friction; roads; surfaces; test facilities

65. AU - Davis, L.
TI - Vcon 3006 - A new concept in large mining trucks
SO - Society of Automotive Engineers, Technical Paper No. 720376
IT - mining equipment

66. AU - Kelley, D.M.
TI - Euclid Turbine-Electric Rear Dump
SO - Society of Automotive Engineers, Technical Paper No. 720375
IT - electric vehicles; mining equipment; turbine trucks

67. AU - Takaoka, I.; Umotor, I.; Kawakatsu, S.
TI - Daihatsu S-37 Mini Cabover Electric Truck and its electric equipment
SO - Society of Automotive Engineers, Technical Paper No. 720189
IT - electric vehicles

68. AU - Kienle, R.N.; Grosch, K.A.; Scott, C.E.
TI - Material properties effecting traction and wear of passenger tires
SO - Society of Automotive Engineers, Technical Paper No. 720161
IT - friction; tires; wear

69. AU - Berman, B.; Gelb, G.H.
TI - Electric car drives - design consideration
SO - Society of Automotive Engineers, Technical Paper No. 720111
IT - electric drives; electric vehicles

70. AU - Bergman, W.; Clemett, H.; Harold, R.; Sheth, N.J.
TI - Tire traction measurement on the road and in the laboratory

SO - Society of Automotive Engineers, Technical Paper No. 710630.
Also published in SAE Transactions, Vol. 80, 1971
IT - tires

71. AU - Moran, J.H.; Grimm, R.A.
TI - Max Trac - wheel spin control by computer
SO - Society of Automotive Engineers, Technical Paper No. 710612
IT - computer applications; wheels

72. AU - Haas, R.H.; Manwaring, R.C.
TI - Development of a limited slip differential
SO - Society of Automotive Engineers, Technical Paper No. 710610.
Also published in SAE Transactions, Vol. 80, 1971
IT - axles, differential gears

73. AU - Meyer, W.E.
TI - What makes pavements slippery?
SO - Society of Automotive Engineers, Technical Paper No. 710572
IT - friction; highways; skid resistance; surfaces

74. AU - Hainline, B.C.; Sellereite, B.K.; Swanke, K.V.
TI - Powered wheels - a concept for parking and taxiing of commercial transport airplanes
SO - Society of Automotive Engineers, Technical Paper No. 710446.
Also published in SAE Transactions, Vol. 80, 1971
IT - landing gear

75. AU - Cortese, A.D.; Rockafellow, C.S.
TI - General Motors proving ground tire cornering test vehicle
SO - Society of Automotive Engineers, Technical Paper No. 710092.
Also published in SAE Transactions, Vol. 80, 1971
IT - test equipment; tires

76. AU - Smithson, F.D.; Herzegh, F.H.
TI - Investigation of tire-road traction properties
SO - Society of Automotive Engineers, Technical Paper No. 710091.
Also published in SAE Transactions, Vol. 80, 1971
IT - roads; tires

77. AU - Spelman, R.H.; Tarpinian, H.D.; Johnson, D.E.; Campbell, K.L.;
DISCUSSED BY: Clemett, H.R.; Smithson, F.D.
TI - SAE study-wet pavement braking traction
SO - Society of Automotive Engineers, Technical Paper No. 700462.
Also published in SAE Transactions, Vol. 79, 1970
IT - tests; tires

78. AU - Dugoff, H.; Fancher, P.S.; Segal, L.
TI - An analysis of tire traction properties and their influence on vehicle dynamic performance
SO - Society of Automotive Engineers, Proceeding P-30. Also published in SAE Transactions, Vol. 79, 1970
IT - computer simulation; tires

79. AU - Hales, F.D.; Barter, N.F.
TI - Traction effects while cornering
SO - Society of Automotive Engineers, Proceedings P-30
IT - steering; vehicle directional control

80. AU - Odier, J.
TI - Road-holding: braking and traction
SO - Society of Automotive Engineers, Proceedings No. P-30
IT - brakes; vehicle directional control

81. AU - Jones, C.S., Jr.; Doran, B.J.; Nola, F.J.
TI - Traction drive system design considerations for a lunar roving vehicle
SO - Society of Automobile Engineers, Technical Paper No. 700023. Also published in SAE Transactions, Vol. 79, 1970
IT - electric drives; lunar vehicles

82. AU - Panny, W.P.; Riddle, A.K.; Discussed by: Robinson, T.E.; Brumbaugh, G.; Chew, N.; Decker, R.; Sullivan, J.T.
TI - The power unit for triples; A C.O.E. 4 x 4 Tractor
SO - Society of Automotive Engineers, Technical Paper No. 690550. Also published in SAE Transactions, Vol. 78, 1969
IT - axles; truck trailers; truck tractors

83. AU - Dobie, W.J.
TI - Problems of obtaining multiple optima in passenger car tire performance
SO - Society of Automotive Engineers, Technical Paper No. 690511
IT - tires

84. AU - Hutchinson, J.F.; Becker, H.D.
TI - Determination of passenger tire performance levels-traction
SO - Society of Automotive Engineers, Technical Paper No. 690510
IT - tests; tires

85. AU - MacDuff, S.I.; Rivard, J.G.; McGlinn, E.J.
TI - Technological development directing the path to fully automatic vehicle control systems
SO - Society of Automotive Engineers, Technical Paper No. 690260
IT - automatic control; brakes; steering; vehicle directional control

86. AU - Gelb, G.H., Richardson, N.A.; Wang, T.C.; DeWolf, R.S.
TI - Design and performance characteristics of hybrid vehicle power train
SO - Society of Automotive Engineers, Technical Paper No. 690169
IT - batteries; computer simulation; electric vehicles; vehicle design

87. AU - Wheeler, C.M.
TI - Motors for electric vehicles
SO - Society of Automotive Engineers, Technical Paper No. 690126

IT - electric vehicles

88. AU - Carr, R.L.
TI - Performance characteristics of low aspect radial tires
SO - Society of Automotive Engineers, Technical Paper No. 690107
IT - tires

89. AU - Wismer, R.D.; Wegscheid, E.L.; Luth, H.J.; Romig, B.E.
TI - Energy application in tillage and earthmoving
SO - Society of Automotive Engineers, Technical Paper No. 680611.
Also published in SAE Transactions, Vol. 77, 1968
IT - agricultural machinery; construction equipment design; friction; vibration

90. AU - Henry, E.K.
TI - Tractor tire treads - designed to make the tractor go
SO - Society of Automotive Engineers, Technical Paper No. 680562
IT - tires

91. AU - Kaye, M.C.; Discussed by: Self, K.W.
TI - Investigation of intercity highway truck drive traction
SO - Society of Automotive Engineers, Technical Paper No. 680548.
Also published in SAE Transactions, Vol. 77, 1968
IT - truck design; truck trailers

92. AU - Sapp, T.
TI - Ice and snow tire traction
SO - Society of Automotive Engineers, Technical Paper No. 680139
IT - friction; tires

93. AU - Kelley, J.D., Jr.
TI - Factors affecting passenger tire traction on the wet road
SO - Society of Automotive Engineers, Technical Paper No. 680138.
Also published in SAE Transactions, Vol. 77, 1968
IT - roads; tires

94. AU - Davisson, J.A.
TI - Basic test methods for evaluating tire traction
SO - Society of Automotive Engineers, Technical Paper No. 680136.
Also published in SAE Transactions, Vol. 77, 1968
IT - brakes; tests; tires

95. AU - Carr, C.I.
TI - Definition of problems in tire skid and traction
SO - Society of Automotive Engineers, Technical Paper No. 680135
IT - roads; tires; vehicle directional control; vehicle safety

96. AU - Arnold, W.A.
TI - Hydraulic drives in forage harvesting
SO - Society of Automotive Engineers, Technical Paper No. 670741
IT - agricultural machinery; hydraulic drives

97. AU - Carlson, E.C.
TI - International 3800 Backhoe-Loader-Tractor
SO - Society of Automotive Engineers, Technical Paper No. 670716
IT - construction equipment design

98. AU - Klamp, W.K.; Milligan, W.J.
TI - Performance characteristics - radial ply tires
SO - Society of Automotive Engineers, Technical Paper No. 670471
IT - tires

99. AU - DeVinney, W.E.
TI - Factors affecting tire traction
SO - Society of Automotive Engineers, Technical Paper No. 670461.
Also published in SAE Transactions, Vol. 76
IT - tires

100. AU - Agarwal, P.D.; Levy, I.M.
TI - High performance A-C electric drive system
SO - Society of Automotive Engineers, Technical Paper No. 670178
IT - electric drives; electric vehicles; fuel cells

101. AU - Wallace, F.J.; Discussed by: Cheklich, G.E.
TI - Differential compound engine
SO - Society of Automotive Engineers, Technical Paper No. 670110.
Also published in SAE Transactions, Vol. 76
IT - compound engines; diesel engines; turbine engines

102. AU - Kronogard, S.O.
TI - Turbine transmission systems for automotive and industrial traction applications
SO - Society of Automotive Engineers, Technical Paper No. 660762.
Also published in SAE Transactions, Vol. 75
IT - power transmission; reciprocating engines; turbine engines

103. AU - Wallace, F.J.; Wright, E.J.; Campbell, J.S.
TI - Future development of free piston gasifier turbine combinations for vehicle traction
SO - Society of Automotive Engineers, Technical Paper No. 660132
IT - turbine engines; free piston engines; turbocharging-turbochargers; compound engines; diesel engines

104. AU - Dreyer, R.E.
TI - Development of the 1200 Traction King
SO - Society of Automotive Engineers, Technical Paper No. 650679
IT - agricultural machinery; manual transmissions; steering; assembling

105. AU - Bergren, H.E.
TI - Application of hydrostatic traction drives to garden tractors
SO - Society of Automotive Engineers, Technical Paper No. 650674
IT - hydrostatic transmissions; garden tractors

106. AU - Gyenes, L.; Williams, T.; Simmons, I.C.
TI - Power requirements of articulated vehicles under cornering conditions
SO - Transport and Road Research Lab., Crowthorne, England Report Number TRRL-SUPPLEMENTARY-484

107. AU - Boyd, P.L.; Neill, A.H., Jr.; Hinch, J.A.
TI - Truck Tire Cornering and Braking Traction Study
SO - ENSCO, Inc., Springfield, VA. National Highway Traffic Safety Administration, Washington, DC. Office of Crash Avoidance. 1979, 75 p, PB 299 437

108. AU - Dowgiallo, E.J., Jr.; Bailey, C.E., Jr.; Snellings, I.R.; Blake, W.H.
TI - Baseline tests of the Daihatsu EH-S40 Electric Delivery Van
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA, Department of Energy, Washington, DC
SO - Final technical memo., 1978, ADA 063661

109. AU - Karafiath, L.L.
TI - Track-soil interaction model for the determination of maximum soil thrust
OS - Grumman Aerospace Corp., Bethpage, NY, Research Dept.
SO - Final rept., 1978, ADA 058026

110. AU - Stevens, R.D.; Nicarico, T.J.; McGean, T.J.
TI - AGT guideway and station technology. Volume 2: weather protection review
OS - De Leuw, Cather and Co., Chicago, IL. ABAM Engineers, Inc., Tacoma, WA. Urban Mass Transportation Administration, Washington, DC
SO - Final rept., 1978, PB 281632

111. AU - Kearns, R.W.; Ward, J.F.
TI - The static force calibration of a skid resistance measuring system
OS - National Bureau of Standards, Washington, DC. Engineering Mechanics Section. Federal Highway Administration, Washington, DC. Office of Development
SO - Final rept., 1976, 88 p, PB 27650

112. AU - Thurman, G.R.; Leasure, W.A., Jr.
TI - Noise and traction characteristics of bias-ply and radial tires for heavy duty trucks
OS - Department of Transportation, Washington, DC. Office of the Secretary. Michigan Univ., Ann Arbor, MI, Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI
SO - Final rept., 1977, 137 p, PB 275517

113. AU - Flynn, L.
TI - Tires

OS - National Highway Traffic Safety Administration, Washington, DC. Technical Services Div.
SO - Mar 77, 650 p, PB 273270

114. AU - Boyd, P.L.; Walston, W.H., Jr.
TI - Effect of rate of change of slip on the peak braking coefficient of passenger car tires
OS - National Highway Traffic Safety Administration, Riverdale, MD, Safety Research Lab. Maryland Univ., College Park, Dept. of Mechanical Engineering
SO - Technical rept., 1977, 75 p, PB 270934

115. AU - Horne, W.B.
TI - Nasa diagonal-braked test vehicle evaluation of traction characteristics of grooved and ungrooved runway surfaces at Miami International Airport, Miami, FL, 8-9 May 1973
OS - National Aeronautics and Space Administration. Langley Research Center, Langley Station, VA
SO - Report Number: NASA-TM-X-73912, 1977, 53 p, N77-27134

116. AU - Neill, A.H., Jr.; Hinch, J.A.
TI - A comparison of tire traction test methods: mobile tire traction dynamometer vs instrumented passenger car
OS - National Highway Traffic Safety Administration, Riverdale, MD, Safety Research Lab.
SO - Technical report, 1977, 74 p, PB 266642

117. AU - Ervin, R.D.; Winkler, C.B.; Bernard, J.E.; Gupta, R.K.
TI - Effects of tire properties on truck and bus handling. Volume IV
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. National Highway Traffic Safety Administration, Washington, DC
SO - Final rept., 28 Jun 74 - 31, Dec 75, Dec 76, 29 p, PB 263881

118. AU - Ervin, R.D.; Winkler, C.B., Bernard, J.E., Gupta, R.K.
TI - Effects of tire properties on truck and bus handling. Volume III, Appendices D, E, F, G
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. National Highway Traffic Safety Administration, Washington, DC
SO - Final rept., 1976, 167 p, PB 263880

119. AU - Ervin, R.D.; Winkler, C.B.; Bernard, J.E.; Gupta, R.K.
TI - Effects of tire properties on truck and bus handling. Volume II, Appendix C.
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. National Highway Traffic Safety Administration, Washington, DC.
SO - Final rept., 28 Jun 74 - 31 Dec 75, Dec 76, 497 p, PB 263879

120. AU - Ervin, R.D.; Winkler, C.B.; Bernard, J.E.; Gupta, R.K.
TI - Effects of tire properties on truck and bus handling. Volume I

OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. National Highway Traffic Safety Administration, Washington, DC.
SO - Final rept., 1976, 222 p, PB 263878

121. AU - Green, A.J.; Melzer, K.J.
TI - The performance of two Boeing-GM Wheels (GM VII and GM VIII) for the Manned Lunar Rover Vehicle
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Sponsored in part by National Aeronautics and Space Administration, Huntsville, AL. George C. Marshall Space Flight Center. WES-MP-M-71-3. 1971, ADA 032963
IT - Lunar surface vehicles; wheels; sand; mobility; traction; soil models

122. AU - Rush, E.S.
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Report Number: WES-MP-M-70-10, 1970, 25 p

123. QU - Ervin, R.D.; MacAdam, C.C.
TI - The noise and traction characteristics of bias-ply truck tires. Volume 2. Wet traction findings
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI.
SO - Final rept., 1976, 44 p, PB 259927

124. AU - Ervin, R.D.; Wild, R.E.
TI - The noise and traction characteristics of bias-ply truck tires. Volume 1. Noise and dry traction findings
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI.
SO - Final rept., 1976, 154 p

125. AU - Dais, J.L.
TI - Analysis of soil indentation by a translating grouser plate
OS - Army Tank-Automotive Command, Warren, MI., Land Locomotion Div.
SO - Technical rept., 1968, 37 p

126. AU - Durham, G.N.
TI - Powered wheels in the turned mode operating on yielding soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Final rept., WES-TR-M-76-9, 1976, 193 p

127. AU - Spitzer, R.L.
TI - A reevaluation of the 60% gradeability requirement
OS - Army Tank-Automotive Command, Warren, MI.
SO - Report Number: TACOM-74-20, 1975, 34 p

128. AU - Gaberson, H.A.; Stone, P.L.
TI - Doubling the drawbar of Marine Corps bulldozers
OS - Civil Engineering Lab U.S. Naval, Port Hueneme, CA

SO - Final rept., Jul 72-Jun 75, 1976, 77 p, ADA 026253

129. TI - Effects of studded tires
OS - Transportation Research Board, Washington, DC. Federal Highway Administration, Washington, DC. American Association of State Highway and Transportation Officials. Washington, DC.
SO - Final rept., synthesis-NCHRP/SYN 32, 1975

130. AU - Ervin, R.D.; Winkler, C.B.
TI - Braking Efficiency test technique
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. National Highway Traffic Safety Administration, Washington, DC.
SO - Summary final rept., Jul 73-Nov 74, 1976, PB 252248

131. AU - Schreiner, B.G.; Willoughby, W.E.
TI - Validation of the AMC-71 Mobility Model. Appendix A: Vehicle data. Appendix B: location and description of test sites. Appendix C: definitions of terrain terms and procedures used to collect terrain data for validation tests. Appendix D: basic terrain data
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Rept No: WES-TR-M-76-5-App-A/D, 1976, 170 p, ADA 023608

132. AU - Habercom, G.E., Jr.
TI - Aerodynamic forces on motor vehicles
SO - Apr 76, 75 p

133. AU - Moser, R.; Pinter, B.
TI - High power motors for electric motor vehicles
OS - Scientific Translation Service, Santa Barbara, CA
SO - Translation into English from Bull. Ass. Suisse Elec. (Switzerland), V. 65, No. 5, 9 Mar 1974, p 321-331, N76-11346, 1975

134. AU - Tielking, J.T.
TI - Analytic Tire Model. Phase I: The statically loaded toroidal membrane
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI.
SO - Final rept., 30 Jul 74 - 30, Jun 75, 217 p, PB 243521

135. AU - Shopalovich, P.
TI - Drive-off aid for wheeled vehicles and method
OS - Department of the Army, Washington, DC
SO - PATENT-3 741 479

136. AU - Koch, B.
TI - A computer model of steady-state and transient traction forces and aligning moment developed by pneumatic tires

OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI
SO - Jan 75, 158 p, PB 241755

137. AU - Ervin, R.D.; MacAdam, C.C.; Fancher, P.S.
TI - The longitudinal traction characteristics of truck tires as measured on dry pavements
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI
SO - Feb 75, 220 p, PB 241023

138. AU - Booker, G.E.
TI - Design and operation of a dual role slipmeter assembly
OS - Defence Research Establishment, Ottawa, Ontario
SO - Technical note, 1975, 26 p, ADA 007268

139. AU - Sinnamon, J.F.; Tielking, J.T.
TI - Hydroplaning and tread pattern hydrodynamics
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States. Inc., Detroit, MI
SO - Interim rept. No. 7, Oct 74, PB 239504

140. AU - Tielking, J.T.; Shih, M.
TI - HSRI digital computer programs for semi-empirical tire models
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst. Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI.
SO - Nov 74, 63 p, PB 238889

141. AU - Dobbins, J.E.
TI - Tread design study of 9.00R20 radial ply tires
OS - Nevada Automotive Test Center, Carson City, NV. Army Tank-Automotive Command, Warren, MI
SO - Final rept., 1974, 251 p, ADA 002074

142. AU - Dobbins, J.E.
TI - Evaluation of the Brazilian run-flat tire
OS - Nevada Automotive Test Center, Carson City, NV. Army Tank-Automotive Command, Warren, MI
SO - Final rept., Jul 74, ADA 001698

143. AU - Sinnamon, J.F.
TI - Literature survey of tire-road experiments
OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.
SO - Feb 74, 144 p, PB 229893

144. AU - Fancher, P.; Segel, L.; MacAdam, C.; Pacejka, H.
TI - Tire traction grading procedures as derived from the maneuvering characteristics of a tire-vehicle system. Volumes I and II (combined)

OS - Michigan Univ., Ann Arbor, MI. Highway Safety Research Inst.
SO - Final rept., 1973, 158 p, PB 225561

145. AU - Karafiath, L.L.; Nowatzki, E.A.
TI - Tractive performance of wheels in soft soils
OS - Grumman Aerospace Corp, Bethpage, NY, Research Dept
SO - Research rept., 1973, 41 p, AD 757713

146. AU - Leland, T.J.
TI - An evaluation of some unbraked tire cornering force characteristics
OS - National Aeronautics and Space Administration. Langley Research Center, Langley Station, VA
SO - Nov 72, 37 p, NASA-TN-D-6964

147. AU - Melnikov, E.S.
TI - The influence of speed on the magnitude of the tangential traction force of a tracked tractor
OTI - (Vliyanie Skorosti na Velichiny Kasatelnoi sily Tyagi Gusenichnogo Traktor)
OS - National Tillage Machinery Lab., Auburn, AL
SO - Trans. of Tsentralnyi Nauchno-Issledovatelskii Institut Mekhanizatsii i Elektrifikatsii Selskogo Khozyaistva Nechernozemnoi Zony. Trudy (USSR), v 7, p 148-157, 1969, 1972, PB 212867-T

148. AU - Smith, J.L.
TI - Effects of tread pattern on the surface traction of terra-tires
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Report Number: AEWES-Misc-Paper-4-942, AD 747099

149. AU - Johnsen, J.L.
TI - The effect of drawbar-pull in sand of the lateral spacing of cleats
OS - Stevens Inst. of Tech., Hoboken, NJ, Davidson Lab
SO - Final rept., 1971, 68 p, AD 725472

150. AU - Neill, A.H., Jr.
TI - Wet traction of tractionized tires
OS - National Bureau of Standards, Washington, DC. Office of Vehicle Systems Research
SO - Technical note, 1971, NBS-TN-566

151. TI - Traction devices
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Rept No: MTP-2-2-706, 1965, AD 718012

152. AU - McHenry, R.R.; DeLeys, N.J.
TI - Automobile dynamics: a computer simulation of three-dimensional motions for use in studies of braking systems and of the driving task

OS - Cornell Aeronautical Lab., Inc., Buffalo, NY
SO - Technical rept., 1970, 207 p, PB 196991

153. AU - Yager, T.J.; Phillips, W.P.; Horne, W.B.; Sparks, H.C.
TI - A comparison of aircraft and ground vehicle stopping performance on dry, wet, flooded, slush-, snow-, and ice-covered runways
OS - National Aeronautics and Space Administration, Langley Station, VA, Langley Research Center
SO - Final rept., 1970, 199 p, AD 715943

154. AU - Sparks, H.C.
TI - A comparison of wet and dry stopping distances on several runway surfaces using an aircraft and a diagonal-braked automobile
OS - Aeronautical Systems Div., Wright-Patterson, AFB, OH
SO - Interim rept., 1970, 108 p, AD 871468

155. AU - Wong, J.Y.
TI - Optimization of the tractive performance of four-wheel-drive off road vehicles
OS - Carleton Univ., Ottawa, Ontario, Faculty of Engineering
SO - 1970, 22 p, AD 714475

156. AU - Luchinskii, N.D.
TI - Friction and efficiency of powered wheels
OS - National Tillage Machinery Lab., Auburn, AL
SO - Trans. of Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Selskogo Khozyaistva (USSR), v 26, n 9, 1968, 1970, p 37-38, PB 194846T

157. TI - Federal Motor Vehicle Safety Standard No. 109 (Tires). The Gates Rubber Company
OS - Automotive Research Associates, Inc., San Antonio, TX, Compliance test rept.
SO - Jul 70, 57 p, PB 192514

158. AU - Doran, B.J.; Jones, C.S., Jr.; Nola, F.J.
TI - Traction drive system design considerations for a lunar roving vehicle
OS - National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL
SO - 25 Nov 69, 42 p, NASA-TM-X-53972

159. AU - Dugoff, H.; Fancher, P.S.; Segel, L.
TI - Tire performance characteristics affecting vehicle response to steering and braking control inputs
OS - Michigan Univ., Ann Arbor, Highway Safety Research Inst.
SO - Final rept. May 68-Aug 69, 109 p, PB 187667

160. AU - Calandro, J.N.; James, N.J.; Pavlics, F.
TI - Resilient wheel

OS - General Motors Corp., Santa Barbara, CA. Defense Research Lab.
SO - Rept No: NASA-CASE-MFS-13929, 1969, 11 p, N69-31329

161. AU - Wiendieck, K.W.
TI - Improved wheel performance on sand by controlled circumferential rigidity
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Final rept., WES-TR-M-69-2, 77 p, AD 688876

162. AU - Baumann, D.M.; Meacham, G.B.
TI - Preliminary design and test of linear induction traction motors and suspension systems
OS - Massachusetts Inst. of Tech., Engineering Projects Lab, Cambridge
SO - 1 Nov 66, 47 p, PB-173686

163. AU - Yankovsk, I.E.; Vyaizenen, V.P.
TI - The influence of redistribution of load on the driving wheels upon the tractive indices of the MT3-52 tractor
OS - National Tillage Machinery Lab., Auburn, AL
SO - Trans. of Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Selskogo Khozyaistva (USSR) n 1, p 42-3, 1968, PB 178082-T

164. AU - Meyer, W.E.; Kummer, H.W.; Lynch, F.J.
TI - Design and development of an airport runway surface traction measuring device
OS - Thompson (John I.) and Co., Inc., Washington, DC
SO - Final rept., 1966, AD 645421

165. AU - Thompson, M.A.; Walters, L.A.
TI - The design of D-C commutator motors for high performance electric vehicles
OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY
SO - Report Number: SAE Paper No. 740169, 1974, 9 p

166. AU - Brickman, A.D.; Park, W.H.; Wambold, J.C.; Zimmerman, J.R.
TI - Road roughenss effects on vehicle performance
OS - Pennsylvania State University, University Park; Pennsylvania Transportation and Traffic Safety Center; University Park, PA
SO - Final Rpt., Aug 1972, 219 p

167. TI - Calspan Tire Center; experimental validation of the Calspan Tire Research Facility, Volume 1
OS - Calspan Corporation, Tire Research Facility, Buffalo, NY
SO - Final Rpt., Dec 1973, 588 p

168. TI - The 1969 and 1970 reports of the National Safety Council Committee on winter driving hazards

OS - National Safety Council; Committee on Winter Driving Hazards; Chicago; IL
SO - 1972, 128 p

169. AU - Petring, F.W.
TI - Limited-slip differential as a winter driving traction aid
SO - Transportation Research Record N477, 1973, p 34-7

170. AU - Neill, A.H.; Boyd, P.L.
TI - Research on wet tire traction
SO - Tire Science & Technology, Vol. 1, No. 2, May 1973, p 172-89

171. AU - Tielking, J.T.
TI - Tire traction research
SO - Highway Safety Research Institute; Hit Lab Reports, Vol. 3, No. 4, Dec 1972, p 5-8

172. AU - Freitag, D.R.; Janosi, Z.J.
TI - Tracks versus wheels in soft soil and snow
OS - Army Waterways Experiment Station
SO - WES Misc Paper 4-651, May 1964, 57 p

173. AU - McRae, J.L.; Knight, S.J.
TI - The terrain-vehicle programs of the U.S. Army Waterways Experiment Station
OS - Army Waterways Experiment Station
SO - WES Misc Paper 4-638, Apr 1964, 16 p

174. AU - Hodges, H.C.
TI - The role of tread design in skid resistance under winter driving conditions
SO - Transportation Research Record N477, 1973, p 38-40

175. AU - Fancher, P.S.; Segel, L.
TI - Tire traction assessed by shear force and vehicle performance
SO - Tire Science & Technology, Vol. 1, No. 4, Nov 1973, p 363-81

176. AU - Boyd, P.L.
TI - Effect of vehicle suspension on wet tire traction testing
SO - Tire Science & Technology, Vol. 1, No 2, May 1973, p 152-71

177. AU - Yager, T.J.
TI - A diagonally braked vehicle for the investigation of tire traction
SO - Tire Science & Technology, Vol. 1, No. 2, May 1973, p 138-51

178. AU - Liljedahl, J.B.
TI - Safety and performance of tractors and machinery
OS - Sponsoring Org: Department of Agriculture

179. AU - Lawson, L.J.
TI - Applications of kinetic energy storage to transportation systems
OS - AiResearch Manufacturing Company
SO - High Speed Ground Transportation Journal, Vol. 12, No. 3, 1978, p 1-27

180. TI - State-of-the-art assessment of electric and hybrid vehicles
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH
SO - NASA-TM-79509, Jan 1978, 596 p

181. AU - Soltis, R.F.; Bozek, J.M.; Denington, R.J.; Dustin, M.O.
TI - Baseline tests of the Kordesh Hybrid Passenger Vehicle
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH
SO - NASA-TM-73769, Jun 1978, 69 p

182. AU - Marcus, A.; Pinkus, O.
TI - Characterization study of an electric motor-transmission system for electric vehicles
OS - Mechanical Technology, Inc., Washington, D.C.
SO - MTI-78TR2, Sep 1977

183. AU - Dowgiallo, E.J.; Bailey, C.E.; Snelling, I.R.; Blake, W.H.; Sherwood, D.
TI - Baseline tests of the Eva Metro Electric Passenger Vehicle
OS - Army Mobility Equipment Research & Devlp Command, Fort Belvoir, VA
SO - Final Rpt., May 1978, 123 p, AD A056927

184. TI - How do alternative powerplant costs compare?
SO - Automotive Engineering, Vol. 86, No. 5, May 1978, p 39-41

185. AU - Bondarenko, B.R.
TI - VL 83 Type A.C. eight-axle freight electric locomotive with mono-motor bogies
SO - Rail International, N 6, Jun 1978, p 373-380

186. AU - Bohli, W.U.; Deng, H.M.; Mueller, W.
TI - Transformers and smoothing reactors for A.C. traction vehicles
SO - Brown Boveri Review, Vol. 64, No. 12, Dec 1977, p 740-750

187. AU - Soltis, R.F.; Mcbrien, E.; Bozek, J.M.; Gourash, F.
TI - Baseline tests of the Volkswagen Transporter Electric Delivery Van
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH
SO - NASA-TM-73766, Jan 1978, 56 p

188. AU - Kielgas, H.; Nill, R.
TI - Converter propulsion systems with 3-phase induction motors for electric traction vehicles
SO - Institute of Electrical and Electronics Engineers, 345 East 47th Street, NY, Conf. paper, 1977, p 305-319

189. TI - International Electric Vehicle Symposium, 4th, Volumes 1 and 2, 1976
OS - Electric Vehicle Council, 90 Park Avenue, NY

190. AU - Chang, M.
TI - Computer simulation of an advanced hybrid electric-powered vehicle
SO - Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, Paper SAE 780217

191. AU - Sakai, H.; Kanaya, O.; Okayama, T.
TI - Effect of hydroplaning on the dynamic characteristics of car, truck and bus tires
OS - Japan Automobile Research Institute, Incorporated
SO - Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, SAE 780195, 1978

192. AU - Sargent, N.B.; McBrien, E.F.; Slavik, R.
TI - Baseline tests of the C.H. Waterman Renault 5 Electric Passenger Vehicle
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH
SO - Report Number: NASA-TM-73759, 1977, 58 p

193. AU - Bozek, J.M.; Maslowski, E.A.; Dustin, M.O.
TI - Baseline tests of the Eva Change-of-Pace Coupe Electric Passenger Vehicle
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH
SO - NASA-TM-73763, 1977, 63 p

194. AU - Sargent, N.B.; Maslowski, E.A.; Soltis, R.F.; Schuh, R.M.
TI - Baseline tests of the C.H. Waterman DAF Electric Passenger Vehicle
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH 44135
SO - NASA-TM-73757, Oct 1977, 113 p

195. AU - Salamon, K.; Kraemer, G.
TI - Traction batteries for existing and future electric road vehicles
OS - Varta Batterie AG, 6233 Kelkheim, West Germany
SO - CONF-760866-4; AED-Conf-76-444-016, 1976, 33 p

196. AU - Danzer, J.
TI - Traction drive with a commutator-free motor
OS - Vyzk Lokomotiv, Czechoslovakia
SO - Elektrotechnicky Obzor, Vol. 66, No. 6, Jun 1977, p 360-364
LA - Czech

197. TI - Grooved pavement causes tire reaction
SO - Automotive Engineering, Vol. 85, No. 10, Oct 1977, p 50-52

198. AU - Barron, W.; Crawford, E.; Weinberg, M.
TI - The outlook for automotive fuel supplies, alternative vehicle engines, and potential implications for transportation tax structures (1985-2000)
OS - Maryland Department of Transportation, Division of Finance, Baltimore-Washington International Airport, MD
SO - Final Rpt., Feb 1978, 206 p, PB 279679

199. TI - Wet-red traction tests demonstrated for investigating tire characteristics
SO - Calspan News, N 18, Nov 1977, p 7

200. AU - Stenger, F.J.; Bozek, J.M.; Soltis, R.F.
TI - Results of baseline tests of the EVA Metro Sedan, Citi-Car, Jet Industries Electra-Van, CDA Town Car, and Otis P-500 Van
OS - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH
SO - NASA-TM-X-73638, Oct 1976, 78 p

201. AU - Green, C.E.; Rula, A.A.
TI - Low-ground-pressure construction equipment for use in dredged material containment area operation and maintenance - equipment inventory
OS - Waterways Experiment Station, Vicksburg; MS
SO - WES-TR-D-77-1, Apr 1977, 156 p, ADA 041451

202. AU - Coleman, R.N.
TI - Another look at traction parameters
SO - Conf Paper, Dec 1976, ASAE 76-1517, 8 p

203. AU - Horne, W.B.
TI - Status of runway slipperiness research
OS - National Aeronautics and Space Administration
SO - Transportation Research Record, N624, Proceeding, 1976, p 95-121

204. AU - Sacia, S.R.
TI - The effect of operating conditions on the skid performance of tires
OS - Goodyear Tire and Rubber Company
SO - Transportation Research Record, N621, Proceeding, 1976, p 126-135

205. AU - Kelley, J.D.; Speyer, A.G.
TI - Effect of tire construction variables on passenger tire wet traction
OS - Firestone Tire and Rubber Company
SO - Transportation Research Record, N621, Proceeding, 1976, p 99-106

206. AU - Maeda, Y.
TI - A consideration of tire-road traction measuring method in Japan
OS - Yokohama Rubber Company, Limited
SO - Transportation Research Record, N621, Proceeding, 1976, p 67-74

207. AU - Ervin, R.D.
TI - Measurement of shear forces developed between tire and pavement
SO - Transportation Research Record, N621, Proceeding, 1976, p 43-54

208. AU - Ali, O.S.; McKyes, E.
TI - Traction characteristics of lugged tires
SO - ASAE Transactions, ASAE 76-1518, Dec 1976, 20 p

209. AU - Young, R.E.; Schafer, R.L.
TI - Can automation improve traction?
SO - ASAE Transactions, ASAE 76-1521, Dec 1976, 12 p

210. AU - Lustenader, E.L.; Guess, R.H.; Richter, E.; Turnbull, F.G.
TI - Development of a hybrid flywheel/battery drive system for electric vehicle applications
SO - IEEE Transactions on Vehicular Technology, Vol. VT-2NO, 2 May 1977, p 135-143

211. TI - Truck tire braking and cornering traction study
OS - National Highway Traffic Safety Administration, Department of Transportation

212. TI - Proceedings of International Conference on Automotive Electronics and Electric Vehicles, 1976
SO - Institute of Electrical and Electronics Engrs Proc Proceeding, SAE, 1976, p 68

213. AU - Chikamori, S.; Honda, M.
TI - Handling and stability analysis of vehicle with semi-trailer
OS - Mitsubishi Motors Corporation
SO - Society of Automative Engineers (Japan), Bulletin N7, Apr 1976, p 96-106

214. AU - Sullivan, E.
TI - Lessening energy waste in the road-tire-vehicle-driver system

OS - Forest Service, Equipment Development Center, San Dimas, Berkeley, CA
SO - Proceeding, 1976, 217 p, PB 264934

215. AU - Busi, J.D.
TI - Electric vehicle research, development and technology-foreign
OS - Defense Intelligence Agency, Pentagon, Washington, DC
SO - ADA 036458, Apr 1976, 73 p

216. AU - Sen, P.C.
TI - On Linear Synchronous Motor (LSM) for high speed propulsion
OS - Institute of Electrical and Electronics Engineers, 345 East 47th Street, NY
SO - Conf. Paper, 1975, p 261-267

217. AU - Weinstein, C.H.
TI - R-32 Energy Storage Propulsion System
OS - Institute of Electrical and Electronics Engineers, 345 East 47th Street, NY
SO - Conf Paper, 1975, p 238-246

218. AU - Senac, G.
TI - Gas turbine traction
OS - French National Railways
SO - French Railway Techniques, Vol. 19, No. 3, 1976

219. AU - Obojski, M.; Grochowski, W.
TI - Waveform of a voltage supplying a traction motor ensuring a minimum vehicle starting time
OS - Warsaw Politechnic University, Poland
SO - Przeglad Elektrotechniczny, Vol. 52, No. 1, Jan 1976, p 21-23
LA - Pol

220. AU - Davis, D.D.; O'Connell, L.G.; Warner, S.E.; Raynard, A.E.; Rowlett, B.H.
TI - Battery-flywheel hybrid electric power system for near term application, Volume 2, system design
OS - California University, Livermore, Lawrence Livermore Laboratory, Livermore, CA, Washington, DC
SO - UCID-17098, Vol. 2, Apr 1976, 81 p

221. AU - Bohn
TI - Simulation of road roughness effects on pavement loading and traction forces
OS - Federal Highway Administration, Structures and Applied Mechanics Division

222. TI - 1973 Winter Test Report
SO - National Safety Council, 425 North Michigan Avenue, Chicago, IL, 1974, 80 p

223. AU - Ervin, R.D.
TI - Mobile measurement of truck tire traction
SO - Highway Safety Research Institute, Huron Parkway and Baxter Road, Ann Arbor, MI, 1975, 35 p

224. AU - Bird, K.D.; Schuring, D.J.
TI - Truck tire testing on Tirf
SO - Highway Safety Research Institute, Huron Parkway and Baxter Road, Ann Arbor, MI, 1975, 37 p

225. AU - Dunlap, D.F.; Fancher, P.S., Jr.; Scott, R.E.; MacAdam, C.C.; Segel, L.
TI - Passenger-car skidding as influenced by roadway design, tire tread depth, and pavement conditions
SO - HIT Lab Reports, Vol. 5, No. 4, Dec 1974, 19 p

226. AU - Hirsch, N.R.; Meinnert, R.J.
TI - Investigation of some experimental motorcycle parameters
OS - National Motor Vehicle Safety Advisory Council, 400 7th Street, SW, Washington, DC
SO - Proceeding, Jul 1973, 20 p

227. AU - Sliwa, H.
TI - Mean speed of braking the traction vehicle
SO - Glasers Annalen ZEV, Vol. 98, No. 12, Dec 1974, p 414-416
LA - Ger

228. AU - Smithson, F.D.; Hill, F.W., Jr.
TI - General Motors Tire Performance Criteria (TPC) Specification System
OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY
SO - SAE 741103, Oct 1974, 11 p

229. AU - Bradisse, J.L.; Ramsey, A.F.; Sacia, S.R.
TI - Mobile Truck Tire-Traction Test System
OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY, SAE 741138, 1974, 12 p

230. AU - Shearer, J.
TI - Uniform tire quality grading-treadwear
OS - Compliance Testing Incorporated, P.O. Box 351, Ravenna, OH, Washington, DC
SO - Final Rpt., Jun 1975, 82 p, PB 244512

231. AU - Kolotushkin, A.; Doronin, A.
TI - The armoured carrier driver's springtime terrain problems
OS - Army Foreign Science and Technology Center, 220 7th Street, NE, Charlottesville, VA
SO - FSTC-HT-23-0061-74, Mar 1974, 8 p, ADA 005478

232. AU - Bergman, W.; Beauregard, C.
TI - Transient tire properties
OS - Society of Automotive Engineers, 2 Pennsylvania Plaza, NY, Paper SAE 740068, 1974, 15 p

233. AU - Belangie, M.C.; Peterson, D.E.
TI - Monitoring winter pavement conditions and wear investigators
OS - Utah Department of transportation

234. TI - Annual winter driving hazards test program
OS - National Safety Council

235. AU - Martin, J.F.
TI - Force and moment characteristics of passenger car tires
OS - Calspan Corporation, P.O. Box 235, Buffalo, NY
SO - CALSPAN-YD-3160-K-1, 1974, 166 p, PB 231359

236. AU - Hibler, W.D., III; Ackley, S.F.
TI - A sea ice terrain model and its application to surface vehicle trafficability
OS - United States Army Cold Regions Research and Engineering Laboratory, Hanover, NH
SO - CRREL-RR-314, 1973, 26 p, AD 774195/2

237. AU - Liston, R.A.
TI - Operational evaluation of the SK-5 air cushion vehicle in Alaska
OS - United States Army, Cold Regions Research and Engineering Laboratory, Hanover, NH
SO - CRREL TR 243, Sep 1973, 47 p, AD 768781

238. AU - Wood, L.E.; Chandler, R.A.; Warner, B.D.
TI - Analysis of problems on the application of radar sensors to automotive collision prevention
OS - Institute for Telecommunication Sciences, Office of Telecommunications, Dept of Commerce; Boulder, CO
SO - Final Rpt, Dec 1973, 368 p, PB 226065

239. AU - Liston, R.A.
TI - Observations of surface effect vehicle performance
OS - United States Army Cold Regions Research and Engineering Laboratory, Hanover, NH
SO - CRREL-TR-240, 1973, AD 762169

Chapter IV - Vehicle mobility.

1. AU - Gorbeshko, M.V.; Romanov, V.V.
TI - Propelling devices for all-terrain vehicles
OTI - Dvizhitel' vnedorozhnogo transportnogo sredstva
SO - Promyshlennyi transport, No. 7, July 1979, p 7
LA - Rus
IT - all-terrain vehicles; propellers; tracked vehicles; trafficability; vehicle wheels; swamps; tundra soils

2. TI - Factors affecting use of winter roads during spring thaw
OS - New Brunswick University, Muskeg Research Institute
SO - Arctic Petroleum Operators Association, Calgary, Alberta Report, APOA 48-3, May 1973, 15 p
LA - Eng
IT - solar radiation; snow compaction; tundra terrain; roads; ground thawing; soil trafficability

3. TI - Winter road preparation and commencement of traffic in the Mackenzie Delta
OS - New Brunswick University, Muskeg Research Institute
SO - Arctic Petroleum Operators Association, Calgary, Alberta Report, APOA 48-2, Nov. 1972, 20 p
LA - Eng
IT - ice roads; ground freezing; frost; degree days; trafficability

4. AU - Grant, R.
TI - Toilet paper and tundra
SO - North/Nord, vol. 26, no. 1, Spring 1979, p 47-49
LA - Eng
IT - aircraft landing areas; runways; soil trafficability; tundra terrain

5. AU - Schreier, H.; Lavkulich, L.M.
TI - Numerical approach to terrain analysis for off-road trafficability
SO - Photogrammetric engineering and remote sensing, vol 45, no. 5, May 1979, p 635-642
LA - Eng
IT - analysis-mathematics; soil trafficability; terrain analysis; remote sensing

6. AU - Britton, M.E.
TI - Petroleum exploration and environmental protection in the Alaskan Arctic
SO - U.S. Geological Survey, Yearbook, 1978, p 27-38
LA - Eng
IT - roads; arctic regions; United States - Alaska; aircraft landing areas; environmental protection; tundra soils; soil trafficability; motor vehicles; tundra vegetation; ice roads

7. AU - Belousov, N.A.; Slodkevich, IA.V.
TI - Increasing the trafficability of tracked vehicles in winter
OTI - Povyshenie prokhodimosti gusenichnykh mashin zimoi
SO - Lesnaia promyshlennost', No. 12, 1978, p 6
LA - Rus
IT - motor vehicles; tracked vehicles; cold weather performance

8. AU - Karafiath, L.L.; Nowatzki, E.A.
TI - Soil mechanics for off-road vehicle engineering
SO - Series on rock and soil mechanics, Vol. 2, No. 5, 515 p, Clausthal, Germany, Trans Tech Publications, 1977
LA - Eng
IT - soil mechanics; all-terrain vehicles; tracked vehicles; soil classification; soil trafficability; plastic properties; vehicle wheels

9. AU - Oberg, G.
TI - Effect of sanding: traffic and friction studies
OTI - Effekter av sanding; trafik-och friktionsstudier
SO - Sweden. Statens vag-och trafikinstitut. Rapport, No. 164, 1978, 53 p + appends.
LA - Swe, Eng
IT - road icing; friction; tests; anti-icing additives; sanding; rubber-ice friction; trafficability; winter maintenance; road maintenance

10. AU - Abele, G.; Walker, D.A.; Brown, J.; Brewer, M.C.; Atwood, D.M.
TI - Effects of low ground pressure vehicle traffic on tundra at Lonely, Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 78-16, Sep 1978, 63 p
LA - Eng
IT - tundra vegetation; tires; soil trafficability; damage

11. AU - Schwarzhoff, J.E.
TI - Soil stabilization of organic soils for trail stabilization
SO - Region 6, U.S. Forest Service, Washington, DC, Aug 1971
LA - Eng
IT - cements; soil stabilization; organic soils; soil trafficability; soil moisture; construction; admixtures

12. AU - Sellin, L.
TI - Peatland conditions as interpreted from aerial photos and thermography
SO - Sweden. Samsarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 15, 1974, p 145-153
LA - Swe, Eng
IT - terrain identification; muskeg; remote sensing; trafficability; photo interpretation

13. AU - Nakkel, E.
TI - Wear terms
SO - Norway. Veglaboratoriet. Meddelelser, No. 45, Mar 1973, p 9-18
LA - Eng
IT - roads; trafficability; dynamic loads; hardness tests; pavements; surface properties; bearing strength; temperature variations; tires

14. AU - Selivanov, I.I.
TI - New trucks of increased terrain trafficability designed in East Germany
OTI - Novye gruzovye avtomobili FRG povyshennoi prokhodimosti
SO - Avtomobil'naia promyshlennost', No. 10, Oct 1977, p 32-33
LA - Rus
IT - design; transportation; motor vehicles

15. AU - Rickard, W.E.; Slaughter, C.W.
TI - Accelerated soil thaw and erosion under vehicle trails in permafrost landscapes
SO - Presented at the American Society of Agricultural Engineers, Report Number MP 613, p 263-266, 1973
LA - Eng
IT - environmental impact; ground thawing; artificial thawing; soil erosion; permafrost weathering; vehicles; soil trafficability

16. AU - Kartashov, S.N.
TI - Trafficability of snow and firn in East Antarctica
OTI - Usloviia prokhodimosti nazemnogo transporta po snezhno-firnovomu pokrovu Vostochnoi Antarktidy
SO - Sovet. Antarkticheskaia Eksped., Inform. biull., No. 22, p 25-28
LA - Rus
IT - snow-mechanical properties; snow-physical properties; traverse operations; transportation-oversnow

17. AU - Fremling, S.
TI - Bearing capacity of lake ice used for traffic
OTI - Sjoisars barighet vid trafik
SO - Sweden. Meteorologiska och hydrologiska institutet. SMHI rapporter, No. RHO 13, 1977, 68 p
LA - Swe, Eng
IT - lake ice; loads-forces; ice bearing capacity; static loads; trafficability; ice cracks; ice breaking; ice elasticity; bearing strength

18. AU - Drope, M.
TI - Arctic snow roads for Arctic pipeline construction -- a Canadian Arctic gas project

SO - Symposium on tracks or wheels, Calgary, Alberta, June 3-4, 1976, XIV/1-XIV/15, Calgary, Canadian Society for Terrain Vehicle Systems, 1977
LA - Eng
IT - snow roads; trafficability; snow compaction

19. AU - Radforth, J.R.; Burwash, A.L.
TI - Transportation
SO - Muskeg Research Conference, 15th, Edmonton, Alberta, 1973. Proceedings. Edited by N.W. Radforth and C.O. Brawner, University of Toronto Press, 1977, p 249-263
LA - Eng
IT - thermal effects; construction; muskeg; transportation; all-terrain vehicles; environmental impact; trafficability; arctic vegetation

20. AU - Keyes, D.
TI - Surface protection from an engineer's point of view
SO - Symposium on Surface Protection through Prevention of Damage (Surface Management). Focus: the Arctic Slope, Anchorage, Alaska, May 17-20, 1977. Proceedings. Edited by M.N. Evans, Anchorage, Alaska, Bureau of Land Management, Mar 1978, p 95-102
LA - Eng
IT - environmental protection; pipelines; waste disposal; trafficability

21. AU - Veschambre, Y.
TI - Methods used for winter trafficability on highways A.10 and A.11
OTI - Methodes utilisees pour la viabilite hivernale sur les autoroutes A.10 et A.11
SO - Neve International, vol. 19, no. 2-3, Autumn 1977, p 61-65
LA - Fre
IT - winter maintenance; road maintenance

22. AU - Balabolkin, R.K.; Kuptsov, V.M.
TI - Operation of automobiles and tracked carriers
OTI - Ekspluatatsiia avtomobilei i gusenichnykh transporterov
SO - Moscow, Transport, 1975, 93 p
LA - Rus
IT - winter maintenance; transportation; motor vehicles; tracked vehicles; swamps; trafficability; fuels; lubricants

23. AU - Cherkasov, I.I.
TI - Mechanical properties of ground in road construction
OTI - Mekhanicheskie svoistva gruntov v dorozhnom stroitel'stve
SO - Soil strength, Moscow, Transport, 1976, 247 p
LA - Rus
IT - test equipment; measuring instruments; soil mechanics; soil trafficability; grain size; soil composition; roads; pavements

24. AU - Nilsson, G.
TI - Vehicle tracks of polymer materials
OTI - Fordonsband av polymera material
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, p 75-86
LA - Swe, Eng
IT - tracked vehicles; polymers; muskeg; soil trafficability

25. AU - Hagg, B.
TI - Regulations for driving in terrain with terrain and motor vehicles
OTI - Foreskrifter for korning i terrang med terrangfordon och motorfordon
SO - Sweden, Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, p 57-60
LA - Swe, Eng
IT - Sweden; all-terrain vehicles; arctic terrain; muskeg; soil trafficability

26. AU - Carlsson, D.
TI - Textile carpets at the construction of transportation roads
OTI - Fibermattor vid anlaggning av transportvager
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, p 53-56
LA - Swe, Eng
IT - organic soils; tests; bearing capacity; roads; construction; muskeg; soil trafficability

27. AU - Scholander, J.
TI - Field tests on organic terrain with an articulated tracked vehicle
OTI - Korforsok med bandvagn 202 a pa myrmark
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, p 47-52
LA - Swe, Eng
IT - organic soils; soil trafficability; roots; muskeg; all-terrain vehicles; arctic vegetation; damage

28. AU - Scholander, J.
TI - Some comparative cone penetrometer tests on different types of organic soil (muskeg)
OTI - Nagra jamforande konpenetreringsforsok pa elementarmyrmark
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, summary, p 31-45
LA - Swe, Eng
IT - measuring instruments; organic soils; bearing capacity; muskeg; penetration tests; soil compacting; soil trafficability

29. TI - SFM muskeg conference, Oct 6-10, 1976
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, 98 p

LA - Swe, Eng
IT - meetings; Sweden; muskeg; organic soils; soil trafficability; all-terrain vehicles

30. AU - Adam, K.M.; Hernandez, H.
TI - Snow and ice roads; ability to support traffic and effects on vegetation
SO - Arctic, vol. 30, no. 1, Mar 1977, p 13-27
LA - Eng, Fre, Rus
IT - ice roads; snow roads; trafficability; vegetation patterns

31. AU - Barkhtanov, L.V.
TI - Practicality of all-terrain vehicles
OTI - K voprosu o prokhodimosti vezdekhodnykh mashin
SO - Gorkii. Politekhnicheskii institut. Trudy, vol. 25, no. 9, 1969, p 46-50
LA - Rus
IT - analysis-mathematics; computer simulation; trafficability; all-terrain vehicles

32. AU - Karafiath, L.L.
TI - Running gear-soil modeling for off-road vehicles
SO - International Conference on Terrain-Vehicle Systems, Detroit, Houghton, MI, June 2-6, 1975. Proceedings. Vol. 1, p 221-247
LA - Eng
IT - models; all-terrain vehicles; soil strength; tires; trafficability

33. TI - Proceedings. Vol. 1, International Conference on Terrain-Vehicle Systems, 5th, Detroit, Houghton, MI, June 2-6, 1975
SO - 288 p
LA - Eng
IT - all-terrain vehicles; soil strength; trafficability

34. AU - Igarashi, H.
TI - Tentative essay in the economic effect of snow removal of the street network
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TL 632, July 1977, 18 p., Translated from Proceedings of the Japanese Society of Civil Engineering, No. 196, p 87-93, Dec 1971
LA - Eng, Jap
IT - trafficability; snow removal; streets; winter maintenance; economic analysis

35. AU - DenHartog, S.L.
TI - Floating ice for crossings
SO - Military Engineer, Report Number MP 780, Mar-Apr 1975, vol 67, no. 436, p 64-66
LA - Eng

IT - bridges; trafficability; floating ice; ice cover strength; ice-construction material

36. AU - Abele, G.; Brown, J.
TI - Arctic Transportation: operational and environmental evaluation of an air cushion vehicle in northern Alaska
SO - Presented at the Petroleum Mechanical Engineering and Pressure Vessels and Piping Conference, Mexico City, Mexico, September 19-24, 1976, Report Number MP 894, 7 p, Paper Number 76-Pet-41. American Society of Mechanical Engineers, 1976
LA - Eng
IT - arctic terrain; tests; air cushion vehicles; trafficability; cost analysis

37. AU - Brown, J.
TI - Ecological and environmental consequences of off-road traffic in northern regions
SO - Surface Protection Seminar, Anchorage, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Anchorage, AK, Bureau of Land Management, Aug 1976, p 40-53
LA - Eng
IT - human factors; thaw depth; soil trafficability; vegetation protection; damage; ground thawing; permafrost preservation; arctic soils; tundra terrain; all-terrain vehicles; protection

38. AU - Pavlov, L.N.
TI - Evaluating the trafficability of swampy lands
OTI - Otsenka prokhodimosti tekhniki po zabolochennoi mestnosti
SO - Stroitel'stvo truboprovodov, No. 9, Sep 1976, p 15-16
LA - Rus
IT - bearing strength; trafficability; construction equipment; pipe laying; swamps; peat

39. AU - Kogure, K.
TI - External motion resistance caused by rut sinkage of tracked vehicle
SO - Journal of Terramechanics, vol. 13, no. 1, May 1976, p 1-14
LA - Eng
IT - tracked vehicles; soil strength; compressive strength; trafficability

40. AU - Rush, E.S.; Schreiner, B.G.
TI - Trafficability tests on unconfined organic terrain (muskeg); Summer 1963 tests
SO - U.S. Army Waterways Experiment Station, Vicksburg, MS, Technical report, No. 3-744, Nov 1966, 44 p
LA - Eng
IT - soil trafficability; all-terrain vehicles; muskeg; permafrost depth

41. AU - Radforth, J.R.
TI - Long term effects of summer traffic by tracked vehicles on tundra
SO - Task Force on Northern Oil Development. Environmental-Social Committee. Report, No. 73-22, 1973, 60 p
LA - Eng
IT - aerial photography; tundra terrain; trafficability; tires; tundra vegetation; thermokarst; vehicle wheels; damage; long range forecasting

42. AU - Smirnov, V.I.
TI - Role of ice cover strength in determining trafficability of Arctic sea-ice roads
OTI - Rol' prochnosti l'da pri opredelenii srokov ekspluatatsii morskikh arkticheskikh zimnikov
SO - Leningrad. Arkticheskii i antarkticheskii nauchno-issledovatel'skii institut. Trudy, Vol. 331, 1976, p 212-216
LA - Rus
IT - forecasting; sea ice; ice cover strength; ice strength; flexural strength; ice roads; trafficability

43. AU - Giudicetti, F.
TI - Testing the bearing capacity of soils with the CBR method after freezing and thawing in the laboratory
OTI - Bestimmung der Tragfahigkeit eines Bodens mit der CBR-Methode nach dem Gefrieren und Auftauen im Laboratorium
SO - Strasse und Autobahn, vol. 26, no. 11, Nov 1975, p 411-419
LA - Ger
IT - trafficability; freeze thaw tests; soil strength

44. AU - Chudakov, D.A.; Skotnikov, V.A.; Kolosha, V.G.
TI - Properties and trafficability indices of swamp tractors
OTI - Svoistva i pokazateli prokhodimosti bolotokhodnykh traktorov
SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, No. 8, Aug 1975, p 36-38
LA - Rus
IT - trafficability; all terrain vehicles; swamps

45. AU - Dorofeev, A.G.; Vegerin, A.M.
TI - Prolonging the trafficability of forest winter roads
OTI - Opyt prodleniia deistviia zimnikh lesovoznhkh dorog
SO - Lesnaia promyshlennost', No. 12, Dec 1974, p 3-4
LA - Rus
IT - construction costs; snow roads; ice roads; thermal insulation

46. AU - Brier, F.W.
TI - Road transitions between land, snow, and ice
SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory. CEL techdata sheet. Aug 1975-75-21, 2 p

LA - Eng
IT - ice deterioration; construction-road; transportation-oversnow; logistics; sea ice-construction; shelf ice-construction; snow-construction; ice roads; snow roads; trafficability; ice shelves; sea ice

47. AU - Radforth, J.R.; Korpijaakko, E.; Radforth, N.W.
TI - Rut damage on frozen organic terrain
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 102, Jan 1972, p 21-26
LA - Eng, Fre
IT - permafrost beneath roads; muskeg; damage; trafficability; tundra soils; tundra vegetation; tracked vehicles

48. AU - Motta, R.
TI - International Conference on Winter Trafficability held in Salzburg
OTI - Il Convegno Internazionale della Viabilita Invernale di Salisburgo
SO - Neve International, vol. 17, no. 1, Apr 1975, p 3-16
LA - Ita
IT - roads; trafficability; snow removal equipment; meetings; winter maintenance

49. AU - Andreev, V.N.
TI - Influence of human activities on tundra vegetation in relation to general trend of tundra biome development
OTI - Izuchenie antropogennykh vozd istvii na rastitel'nost' tundry v sviazi s obshchim napravleniem razvitiia tundrovogo bioma
SO - Vsesoiuznyi simpozium po biologicheskim problemam Severa, 5th, Magadan, Apr 18-22, 1972. Pochvy i rastitel'nost' merzlotnykh raionov SSSR (Soil and vegetation of permafrost regions in the USSR), p 173-179
LA - Rus, Eng
It - tundra soils; transportation; construction; tundra vegetation; agriculture; damage; human factors; environmental impact

50. AU - Khodakov, V.G.
TI - Physical features of snow cover and its effect on landscapes of the North
OTI - Rol' snezhnogo pokrova v prirode landshaftov Severa i ego fizicheskie svoistva
SO - Akademiia nauk SSSR. Izvestiia. Seriia geograficheskaia, No. 1, Jan-Feb 1975, p 17-26
LA - Rus
IT - albedo; snow temperature; solar radiation; trafficability; USSR-Ural Mountains; snow cover distribution; snow cover structure; landscape types; snow depth; tundra topography; forest tundra; taiga terrain

51. AU - Zhukov, V.I.
TI - Influence of traffic intensity of the condition of pavement surfaces during winter
OTI - Vliianie intensivnosti dvizheniia na izmeneniia sostoianiia poverkhnosti dorozhnykh pokrytii v zimnee vremia
SO - Ministerstvo vysshego i srednego spetsial'nogo obrazovaniia. Izvestiia vysshikh uchebnykh zavedenii. Stroitel'stvo i arkhitektura, No. 12, 1974, p 142-144
LA - Rus
IT - snow cover effect; surface properties; trafficability; rubber ice friction; rubber-snow friction; roads; pavements; road icing

52. AU - Rising, K.E.
TI - Temperature, snow, and frost depth investigations in swamps; carrying capacity of swamp soil
OTI - Temperatur, sno-och tjaldjupsundersokning i myr; myrmarkens barighet
SO - Stockholm, Forsvarets forskningsanstalt, FOA 2 Rapport A 2571-F7, May 1973, 41 p
LA - Swe
IT - swamps; frost penetration; bearing capacity; soil trafficability

53. AU - Govorukhin, A.M.; Gamezo, M.V.
TI - Excerpts from the Officers Handbook of Military Topography of the USSR
SO - U.S. Foreign Science and Technology Center. Technical translation, 1969-FSTC-HT-23-718-69, 18 p, Unedited translation of p 166-176 and p 246-252 of cited Russian text.
LA - Eng, Rus
IT - military operation; vehicles; trafficability; swamps; ice cover; peat

54. AU - Radforth, J.R.
TI - Immediate effects of wheeled vehicle traffic on tundra during the summer
SO - Canada. Department of Indian Affairs and Northern Development. IAND publication, 1973-No. QS-3033-000-EE-A1, 32 p
LA - Eng
IT - tires; long range forecasting; Canada-Northwest Territories-Richards Island; tundra terrain; tundra vegetation; vehicle wheels; trafficability

55. AU - Wilson, N.E.
TI - Stress distribution in organic soils under traffic loading
SO - Canadian Peat Symposium. [Proceedings], Reprint, Sherbrooke University, 1972, 17 p
LA - Eng
IT - peat; deformation; shear strength; organic soils; trafficability; all terrain vehicles; soil strength; dynamic loads

56. AU - Henke, K.F.
TI - Measuring and estimating soil trafficability
OTI - Messung und Berteilung der Befahrbarkeit von Boeden
SO - Strasse und Autobahn, May 1974, v. 25(5), p 173-177
LA - Ger
IT - soil trafficability; soil tests

57. AU - Paddison, F.C.; Stone, A.M.
TI - Transportation in the Arctic
SO - Polar Deserts Symposium, Philadelphia, 1971. Edited by T.L. Smiley and J.H. Zumberge, p 125-149, Tucson, University of Arizona Press, 1974
LA - Eng
IT - permafrost; logistics; transportation; air cushion vehicles; airplanes; icebreakers; fuel transport; trafficability

58. AU - Hibler, W.D., III; Ackley, S.F.
TI - Sea ice terrain model and its application to surface vehicle trafficability
SO - U.S. Army Cold Regions Research and engineering Laboratory, Report Number RR 314, Dec 1973, 26 p
LA - Eng
IT - sea ice; topographic features; air cushion vehicles; trafficability; models

59. AU - Ivankov, P.
TI - In deep snow
OTI - Po glubokomu snegu
SO - Voennyi vestnik, March 1973, No. 3, p 76-78
LA - Rus
IT - snow depth; snow density; snow surface; trafficability; military transportation; military operation; military equipment

60. AU - Brown, R.J.E.; Williams, G.P.
TI - Freezing of peatland
SO - National Research Council, Canada. Division of Building Research. Technical paper, 1972-No. 381, 24 p
LA - Eng
IT - discontinuous permafrost; construction; peat; soil freezing; freeze thaw cycles; frost penetration; thaw depth; trafficability

61. AU - Short, A.D.; Wiseman, W.J., Jr.
TI - Freezing effect on Arctic beaches
SO - Louisiana State University and Agricultural and Mechanical College. Institute of Coastal Studies. Technical report, Jan 1973, TR-128, 12 p
LA - Eng
IT - temperature effects; coastal topographic features; frozen ground mechanics; shoreline modification; soil freezing; trafficability

62. AU - Rush, E.S.
TI - Meteorological and trafficability data, U.S. - Canadian Arctic Weather Stations
SO - U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS, Miscellaneous report, - AEWES - Misc-Paper 4-298, Jan 1959, 36 p
LA - Eng
IT - permafrost; meteorological data; soil mechanics; arctic soils; soil moisture; ground thawing; soil trafficability

63. AU - Harwood, T.A.; Yong, R.N.
TI - Northland vehicle considerations
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, 1972, No. 104, p 129-145
LA - Eng, Fre
IT - all-terrain vehicles; tracked vehicles; soil trafficability

64. AU - Untersteiner, N.
TI - Future support technology requirements of the Arctic investigator on the surface and in the boundary layer
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1972, p 6-8
LA - Eng
IT - boundary layer; remote sensing; ice deterioration; trafficability

65. AU - Assur, A.
TI - Locomotion over soft soil and snow
SO - Automotive Engineering Congress. Paper, Report Number MP 44, Jan 1964-No. 782F, 25 p
LA - Eng
IT - trafficability; snow cover; snow mechanics; soil mechanics

66. AU - Assur, A.
TI - Traffic over frozen or crusted surfaces
SO - International Conference on the Mechanics of Soil-Vehicle Systems. Proceedings, Report Number MP 43, June 1961, 1st, p 913-923
LA - Eng
IT - trafficability; cracking (fracturing); ice cover strength; ice sheets; bearing capacity

67. AU - Smith, M.; Nakano, Y.
TI - Model analysis of vehilce trafficability with application to surface effect vehicles on sea ice fields
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number RR 298, Jan 1972, 17 p
LA - Eng
IT - air cushion vehicles; sea ice; statistical analysis; models; trafficability

68. AU - Skotnikov, V.A.; Kolosha, V.G.
TI - Force loading effect of attachments on the layout of a tractor assembly designed for swamps
OTI - (Vliianie silovogo vozdeistviia meliorativnykh mashin na komponovku bolotokhodnogo traktora)
SO - Stroitel'nye i dorozhnye mashiny, Nov 1971, No. 11, p 18-20
LA - Rus
IT - swamps; trafficability; motor vehicles; tractors

69. AU - Terry, C.W.
TI - Investigation of new instsrumentation and techniques for rapid evaluation of load bearing capacity of temporary roads, runways and compacted areas (snow and soil)
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Oct 1966, N-852
LA - Eng
IT - trafficability; bearing capacity; performance; soil; snow; test equipment; penetrometers

70. AU - Paige, R.A.
TI - Ice and snow terrain features, McMurdo Station, Antarctica
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Sept 1966, N-840
LA - Eng
IT - runways; roads; maintenance; sea ice; ice mechanics; Antarctica - McMurdo Station; ice (construction material); ice surface; trafficability

71. AU - Weiss, S.J.; Yamamoto, K.; Taylor, D.
TI - Powered arctic cargo trailer operational tests in sand, mud, and snow
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Sept 1956, N-274
LA - Eng
IT - sands; mud; tractors; snow mechanics; trafficability

72. AU - Bruck, A.B.; Burton, G.W.; Radecki, C.T.
TI - Snow stabilization tests at Point Barrow, Alaska during 1950-51
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, July 1951, N-46, 9 p
LA - Eng
IT - trafficability; cold weather construction; United States - Alaska - Point Barrow; snow stabilization; construction equipment; snow roads

73. AU - Taylor, D.; Pierce, N.E.
TI - Polar transportation - analysis of wheeled vehicles for McMurdo, Antarctica
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical report, Jan 1967, R-507
LA - Eng

IT - roads; transportation; trafficability; antarctica - McMurdo; vehicles; cold weather operation

74. AU - Coffin, R.C.
TI - Squaw Valley Winter Trials, 1958-59. Compacted-snow parking study on meadow land
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical report, Nov 1959, R-51, 63 p
LA - Eng
IT - snow compaction; trafficability; maintenance; admixtures

75. AU - Moser, E.H.
TI - Experimental Arctic Operation Hard Top 1, 1953
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA. Technical report, Jan 1954, R-6, 435 p
LA - Eng
IT - Greenland; runways; trafficability; snow (construction material); snow compaction; construction equipment; logistics

76. AU - Vazetdinov, A.
TI - New all-union state standards for machinery, apparatus and manufactured articles for northern regions
OTI - Novyi GOST na mashiny, pribory i izdeliia v severnom ispolnenii
SO - Stroitel'stvo truboprovodov, Feb 1971, No. 2, p 38
LA - Rus
IT - rubber-tracked vehicles; antifreezes; frost resistance; cold weather performance; trafficability; road icing; swamps; construction materials; construction equipment

77. AU - Thomas, A.N.
TI - Permafrost, the major challenge
SO - Oilweek, Nov 3, 1969, 20(37), p 40, 42, 45-46
LA - Eng
IT - water supply; seismic surveys; construction; permafrost depth; permafrost distribution; tundra terrain; trafficability

78. AU - Burt, G.R.
TI - Travel on thawed tundra
SO - Symposium on Cold Regions Engineering, Proceedings, College, University of Alaska, 1971, p 296-319
LA - Eng
IT - human factors; tundra soils; trafficability; thaw depth; motor vehicles; active layer; tundra vegetation

79. TI - Summary on Snow Compaction Tests 1952-53, Kapuskasing, Canada
SO - U.S. Army Cold Regions Research and Engineering Laboratory (SIPRE), Report Number SR 7, May 1954, 24 p
LA - Eng
IT - trafficability; tests; snow strength; snow compaction

80. AU - Bender, J.A.
TI - Testing of a compacted snow runway
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 42, July 1956, 38 p
LA - Eng
IT - tests; aircraft landing areas; runways; snow (construction material); bearing capacity; compressive properties; trafficability

81. AU - MacFarlane, I.C.; Butler, J.
TI - Proceedings of the Twelfth Muskeg Research Conference, May 1966
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, March 1967, No. 90, 139 p
LA - Eng
IT - construction; muskeg; roads; vehicles; peat; models; surface roughness; trafficability

82. AU - Shapovalov, I.
TI - DT-75B Tractor for swamps
OTI - Bolotokhodnyi traktor DT-75B
SO - Tekhnika v sel'skom khoziaistve, 1970, No. 8, p 58-59
LA - Rus
IT - swamps; trafficability; transportation equipment

83. TI - Arctic Environment Study; final report
OS - Boeing Company. Aerospace Group; U.S. Army Missile Command
SO - Seattle, Boeing Company for Advanced Research Projects Agency, Oct 1969, 268 p
LA - Eng
IT - military operation; arctic climate; navigation; trafficability

84. AU - Shevchenko, L.A.
TI - Possibility of using landscape indicators for the evaluation of swamp trafficability
OTI - O vozmozhnosti ispol'zovaniia landshaftnykh indikatorov pri otsenke uslovii dvizheniia transporta na bolotakh
SO - Moskovskoe obshchestvo ispytatelei prirody. Trudy, 1970, Vol. 36, p 76-86
LA - Rus, Eng
IT - ecology; swamps; trafficability; landscape types; vegetation

85. TI - Investigation of snow compaction methods 1949
SO - U.S. Army Cold Regions Research and Engineering Laboratory (ACFEL), Report Number ACFEL TR 22, June 1949, 216 p, Conducted for Engineer Research and Development Laboratories, FY 1949
LA - Eng
IT - tests; aircraft landing areas; snow compaction; equipment; models; trafficability; snow bearing strength; elastic properties

SO - National Research Council. Highway Research Board. Special report, Snow removal and ice control research. Proceedings of an international symposium held at Dartmouth College, Hanover, NH, April 8-10, 1970, April 1970, No. 115, p 97-103
LA - Eng
IT - snow water content; snow compaction; trafficability; skid resistance

87. AU - Cullen, R.M.; Cullingford, G.; Mayfield, B.
TI - Rigid wheels in clay
SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug. 29 - Sept 2, 1966, Quebec. Proceedings, p 446-470, Toronto, Univ. of Toronto Press, 1966
LA - Eng
IT - models; clay soils; vehicle wheels; tests; soil pressure; trafficability

88. AU - Sawada, K.
TI - Measurements of shearing stress in earth under a moving vehicle
SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug. 29 - Sept 2, 1966, Quebec. Proceedings, p 323-335, Toronto, Univ. of Toronto Press, 1966
LA - Eng
IT - vehicles; soil pressure; shear stress; tests; trafficability

89. AU - Ager, B.
TI - Measuring trafficability of snow
SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug 29 - Sept 2, 1966, Quebec. Proceedings, p 311-322, Toronto, Univ. of Toronto Press, 1966
LA - Eng
IT - measurement; trafficability; snow strength

90. AU - Burt, G.R.
TI - Summer travel on the tundra with low ground pressure vehicles
SO - University of Alaska. Institute of Arctic Environmental Engineering, 9 p
LA - Eng
IT - tundra terrain; vehicles; trafficability; active layer

91. AU - Wilson, N.E.
TI - Influence of track design on soil pressures and deformations
SO - International Peat Congress, 3d, Aug 18-23, 1968, Quebec. Proceedings, p 60-64, In English with French summary. Ottawa, National Research Council, Canada, 1968
LA - Eng, Fre
IT - design criteria; soil mechanics; soil trafficability

92. AU - Hemstock, R.A.
TI - Transportation over muskeg

SO - International Peat Congress, 3d, Aug 18-23, 1968, Quebec. Proceedings, p 57-59, In English with French summary. Ottawa, National Research Council, Canada, 1968
LA - Eng, Fre
It - muskeg; trafficability; vehicles

93. AU - Stevens, H.W.; Tizzard, W.J.
TI - Traffic tests on Portage Lake ice
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 99, Dec 1969, 49 p
LA - Eng
IT - compressive strength; flexural strength; ice crystal size; ice crystal structure; trafficability; lake ice; floating ice; ice bearing capacity; loads (forces)

94. AU - Pules, M.L.; Eves, D.J.
TI - ATV flotation tires
SO - Society of Automotive Engineers, Technical Paper No. 720765
IT - all-terrain vehicles; amphibious vehicles; military vehicle mobility; ride evaluation; suspension systems; tires

95. AU - Kummen, H.
TI - Practical snowmobility for ordnance vehicles
SO - Society of Automotive Engineers, Technical Paper No. 720259. Also published in SAE Transactions, Vol. 81, 1972
IT - cold weather operation; military vehicles; mobility research; snow vehicles

96. AU - Armantrout, K.M.; Dick, W.M.
TI - Torque-biasing full-time four-wheel drive for passenger and utility vehicles
SO - Society of Automotive Engineers, Technical Paper No. 710614
IT - four wheel drive

97. AU - Gerstel, L.
TI - Principles of stepping vehicles with overbridging and self-leveling properties
SO - Society of Automotive Engineers, Technical Paper No. 710233
IT - mobility research; transportation; vehicle design

98. AU - House, W.C.; Eggington, W.J.; Lysdale, C.A.
TI - Evolution of the air cushion
SO - Society of Automotive Engineers, Technical Paper No. 710182
IT - ground effect machines

99. AU - Lockie, P.E.; Wormley, J.D.
TI - Design and performance characteristics of White Construction Equipment four-wheel drive self propelled vehicles
SO - Society of Automotive Engineers, Technical Paper No. 700725
IT - four wheel drive

100. AU - Wigotsky, V.W.
TI - The pressure for transportation balance
SO - Society of Automotive Engineers, Technical Paper No. 700187
IT - transportation

101. AU - Austrow, H.W.; Kelt, L.
TI - The M561 Cargo Truck-the Gama Goat
SO - Society of Automotive Engineers, Technical Paper No. 700015
IT - military vehicles; truck design

102. AU - Johnson, R.M.
TI - Procurement and Development of the M715 1-1/4 Ton truck series
SO - Society of Automotive Engineers, Technical Paper No. 700014
IT - cold weather operation; military vehicles; truck design

103. AU - Hurford, E.C.
TI - Doctrinal basis for high mobility vehicles in forward area Army units
SO - Society of Automotive Engineers, Technical Paper No. 700011
IT - military vehicle mobility

104. AU - Elkins, A.O.; Schaefer, H.W.; Brooks, D.M.
TI - Family of military engineer construction equipment
SO - Society of Automotive Engineers, Technical Paper No. 690579
IT - construction equipment design; military vehicles

105. AU - Tashjian, R.C.; Simmons, J.A.
TI - Marine Corps Marginal Terrain Vehicle XM 759
SO - Society of Automotive Engineers, Technical Paper No. 690190
IT - military vehicles; tires

106. AU - Herling, W.R.; Markow, E.G.
TI - Elliptical wheel concepts
SO - Society of Automotive Engineers, Technical Paper No. 690153
IT - military vehicle mobility; wheels

107. AU - Howe, G.H.; Wells, C.G.
TI - The Air-Cell Suspension System - A solution to off-road mobility problems
SO - Society of Automotive Engineers, Technical Paper No. 690152
IT - computer simulation; military vehicles; suspension systems

108. AU - Gay, R.R.; Harju, W.P.
TI - A statistical approach of determining cross-country speed
SO - Society of Automotive Engineers, Technical Paper No. 690151
IT - military vehicle mobility; statistics

109. AU - Bartlett, G.E.; Belsdorf, M.R.; Deutschman, J.N.; Smith, R.L.
TI - On the prediction of off-road vehicle system mobility
SO - Society of Automotive Engineers, Technical Paper No. 690150. Also published in SAE Transactions, Vol. 78, 1969
IT - computer simulation; military vehicle mobility

110. AU - Brannon, W.; David, R.H.; Hodges, W., Jr.; Janowski, W.R.
TI - Design and development of the twister testbed
SO - Society of Automotive Engineers, Technical Paper No. 690149
IT - military vehicles; mobility research

111. AU - Douglas, O.; Burr, C.E.
TI - Potential of the air cushion vehicle for off-road mobility
SO - Society of Automotive Engineers, Technical Paper No. 690148
IT - amphibious vehicles; ground effect machines; mililtary vehicle mobility; mobility research

112. AU - King, C.W.; Collins, G.C. Slabiak, W.
TI - Electric-wheel vehicle propulsion system
SO - Society of Automotive Engineers, Technical Paper No. 690071. Also published in SAE Transactions, Vol. 78, 1969
IT - electric vehicles; military vehicles

113. AU - Forsyth, R.W.; Forsyth, J.P.
TI - Design and development of the TerraStar Marginal-Terrain Amphibian
SO - Society of Automotive Engineers, Technical Paper No. 680535. Also published in SAE Transactions, Vol. 77, 1968
IT - amphibious vehicles; military vehicles

114. AU - Tuttle, G.A.; Trapp, E.W.; Trestrail, C.D.
TI - The United States/Federal Republic of Germany Main Battle Tank Program; A pioneering effort in international development
SO - Society of Automotive Engineers, Technical Paper No. 680534
IT - management; military vehicles

115. AU - Wong, R.E.
TI - Surface mobility systems for lunar exploration
SO - Society of Automotive Engineers, Proceedings No. P-23. Also published in SAE Transactions, Vol. 77, 1968
IT - lunar vehicles

116. AU - Comstock, K.G.
TI - GOERS: The Army's high mobility logistics fleet
SO - Society of Automotive Engineers, Technical Paper No. 680253
IT - military vehicles; truck operation-truck performance

117. AU - Kind, W.H.; Logan, J.S.
TI - Design of the M656 cargo truck
SO - Society of Automotive Engineers, Technical Paper No. 680101
IT - military vehicles; steering; suspension systems

118. AU - Wong, R.E.; Galan, L.; Bradford, L.L.
TI - Design for the lunar environment
SO - Society of Automotive Engineers, Technical Paper No. 680099
IT - lunar vehicles

119. AU - Hoppe, C.H.
TI - Design for the rough terrain environment
SO - Society of Automotive Engineers, Technical Paper No. 680098
IT - computer applications; military vehicle mobility; mobility research; vehicle dynamics

120. AU - Ehrlich, I.R.; Dugoff, H.; Worden, G.M.
TI - Design for the riverine environment
SO - Society of Automotive Engineers, Technical Paper No. 680097
IT - military vehicle mobility

121. AU - Rieli, A.
TI - Design for limited warfare environment
SO - Society of Automotive Engineers, Technical Paper No. 680095
IT - military vehicles; test equipment

122. AU - Vrooman, A.J.; Osteen, L.L.
TI - Army's new hinged-frame tractor and companion 18 cu yd scraper
SO - Society of Automotive Engineers, Technical Paper No. 670739. Also published in SAE Transactions, Vol. 76
IT - construction equipment design; hydraulic systems; military vehicles

123. AU - Rula, A.A.; Freitag, S.J.; Knight, S.J.
TI - Design of off-road vehicle test beds for remote area operation
SO - Society of Automotive Engineers, Technical Paper No. 670171
IT - military vehicle mobility; mobility research

124. AU - Liston, R.A.
TI - Correlation between predicted and actual off-road vehicle performance
SO - Society of Automotive Engineers, Technical Paper No. 670170. Also published in SAE Transactions, Vol. 76
IT - military vehicle mobility; mobility research; systems engineering

125. AU - Ehrlich, I.R.
TI - Place of model tests in vehicle development
SO - Society of Automotive Engineers, Technical Paper No. 670169
IT - military vehicles; mobility research; models; operations research; tests

126. AU - McKenzie, R.D.; Howell, W.M.; Skaar, D.E.
TI - Computerized evaluation of driver-vehicle-terrain systems
SO - Society of Automotive Engineers, Technical Paper No. 670168. Also published in SAE Transactions, Vol. 76
IT - computer simulation; military vehicles; mobility research; models; vibration

127. AU - Umberger, C.C.
TI - Vehicles for traversing the Twilight Zone

SO - Society of Automotive Engineers, Technical Paper No. 660745
IT - military vehicles; mobility research

128. AU - Friedman, D.
TI - The corollary advantages of Lunar Terrestrial Vehicle and Power Train Research
SO - Society of Automotive Engineers, Technical Paper No. 660150
IT - lunar vehicles; mobility research

129. AU - Pavlics, F.
TI - Locomotion energy requirements for lunar surface vehicles
SO - Society of Automotive Engineers, Technical Paper No. 660149. Also published in SAE Transactions, Vol. 75
IT - lunar vehicles; mobility research

130. AU - Sponsler, W.B.
TI - Preliminary mobility tests of a scale model lunar roving vehicle
SO - Society of Automotive Engineers, Technical Paper No. 660147
IT - lunar vehicles; mobility research; soil mechanics; suspension systems

131. AU - Zimmerman, R.E.
TI - XM-561 Cargo Truck - a breakthrough in mobility
SO - Society of Automotive Engineers, Publication No. 961C
IT - military vehicles; mobility research; truck design

132. AU - Gardner, C.N.; Sutton, B.H.; Lloyd, B.A.
TI - Overall evaluation and mobility prediction of ground support vehicles for weapon systems
SO - Society of Automotive Engineers, Publication No. SP-261
IT - mobility research; ground support equipment; military vehicles

133. AU - McNicholas, R.J.; Crane, F.L.
TI - Guide to fire support mix evaluation techniques. Vol. 1, guide and appendices A and B
OS - Stanford Research Inst, Menlo Park, CA, Naval Warfare Research Center
SO - 1 Mar 73, 255 p, AD 912715

134. AU - Brown, D.N.; Clark, A.A.; Lacavich, R.J.; Rush,
TI - Relative surfacing requirements for container-handling vehicles
OS - Army Waterways Experiment Station, Vicksburg, MI
SO - Rept No. AEWES-Misc-Paper-S-72-34, 1972, AD 905195/4

135. AU - Schreiner, B.G.
TI - Mobility exercise a (MEXA) Field Test Program, Report 2. Performance of MEXA and three military vehicles in soft soil. Volume 1
OS - Army Waterways Experiment Station, Vicksburg, MI

SO - Rept. No. AEWES-TR-M-70-11-2, Vol-1, 1971, AD 883199/2

136. TI - Development of 90-mm Gun Tank, T49
OS - Pittsburgh Univ, Washington, DC Research Staff
SO - Apr 54, 6 p, AD 395255

137. AU - Ng, W.K.; Neilson, J.E.
TI - Conversion of the AMC 74 Mobility Program to DREO's Sigma 9
OS - Defence Research Establishment Ottawa, Ontario
SO - Oct 79, 18 p, ADA 079496

138. AU - Patil, A.S.; Manthey, G.C.
TI - Test of Caterpillar, 50,000-pound-capacity, Rough-Terrain Container Handler (RTCH)
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA
SO - Sep 79, 35 p, ADA 077513

139. AU - Harris, W.A.
TI - Human factors and training implications of advanced-concept cargo vehicles
OS - Army Research Inst for the Behavioral and Social Sciences, Alexandria, VA
SO - Feb 78, 27 p, ADA 076706

140. AU - Adams, G.J.; Hoover, L.
TI - Study on hydrostatic drives for small AGT vehicles
OS - Mobility Systems Equipment Co., Los Angeles, Urban Mass Transportation Administration, Washington, DC, Office of Technology Development and Deployment.
SO - Oct 78, 121 p, PB 298805

141. AU - Riddell, F.R.; Dix, D.M.
TI - Technology assessment of advanced propulsion systems for some classes of combat vehicles. Volume 1, summary and main text
OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div, Shared Bibliographic Input Experiment
SO - Sep 78, 217 p, ADA 070534

142. AU - Riddell, F.R.; Dix, D.M.
TI -Technology assessment of advanced propulsion systems for some classes of combat vehicles. Volume 2. Appendices A-F
OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div, Shared Bibliographic Input Experiment
SO - Sep 78, 354 p, ADA 070528

143. AU - Riddell, F.R.; Dix, D.M.
TI - Technology assessment of advanced propulsion systems for some classes of combat vehicles. Volume 3. Appendices G-M
OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div, Shared Bibliographic Input Experiment
SO - Sep 78, 284 p, ADA 070529

144. AU - Randolph, D. D.
TI - Mobility performance of selected truck/trailer combinations in the HIMO West Germany Study Area (TACV Addendum)
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-GL-79-10, May 79, 88 p, ADA 068870

145. AU - Randolph, D.D.
TI - Mobility performance of the M578 Light Recovery Vehicle and other selected vehicles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Rept. No. WES-MP-GL-79-6, Mar 79, 91 p, ADA 068082,

146. TI - Test operations procedure. Tropic testing of vehicles
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 31 Oct 78, 50 p, ADA 066798

147. AU - Dowgiallo, E.J. Jr; Bailey, C.E. Jr; Snellings, I.R.; Blake, W.H.
TI - Baseline tests of the Sebring Citi-Van Electric Delivery Truck
OS - Army Mobility Equipment Research and Development Command Fort Belvoir, VA, Department of Energy, Washington, DC
SO - Feb 79, 63 p, ADA 066582

148. AU - Dowgiallo, E.J. Jr; Bailey, C.E. Jr; Snellings, I.R.; Blake, W.H.
TI - Baseline Tests of the Electra-Van Multipurpose Electric Van
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, Va, Department of Energy, Washington, DC.
SO - Nov 78, 71 p, ADA 065147

149. TI - Applicability of the Remote Mobile Emplacement Package (RMEP)-Design as a mobility aid for proposed Post-84 Mars Missions, Phase 0
OS - Grumman Aerospace Corp., Bethpage, NY
SO - Rept. No NASA-CR-158041; 1978, N79-14139

150. AU - Dowgiallo, E.J. Jr; Bailey, C.E. Jr; Snellings, Ivan R.; Blake, W.H.
TI - Baseline tests of the Daihatsu EH-S40 Electric Delivery Van
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA, Department of Energy, Washington, DC
SO - Aug 78, 62 p, ADA 063661

151. AU - Heslin, J.G.
TI - Combat power: an ontological approach
OS - Naval War College Newport, RI, Center for Advanced Research
SO - 1978, 181 p, ADA 061706

152. AU - Randolph, D.D.
TI - Mobility performance of selected 1/4- to 10-ton tactical trucks and cargo carriers in the HIMO West Germany study area (TACV Study)

OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Rept. No. WES-MP-M-78-10, 1978, ADA 062 455

153. AU - Niemeyer, W.A.; Thibodeau, R.C.
TI - Parametric analysis of main battle tank mobility in Korean terrain
OS - Army Materiel Systems Analysis Activity, Aberdeen Proving Ground, MD
SO - Oct 78, 60 p, ADA 060871

154. AU - Randolph, D.D.
TI - Mobility performance of selected 1-1/4- to 5-Ton cargo trucks in the HIMO West Germany study area (TACV Excursion)
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Rept. No. WES-MP-M-78-9, 1978, ADA 060324

155. AU - Blundell, C.
TI - Bibliography on Terrain Vehicle Systems Analysis
OS - Defence Research Establishment Ottawa, Ontario
SO - Jul 78, 180 p, ADA 059233

156. TI - Improving urban mobility: a directory of research, development and demonstration projects in public transportation
OS - Urban Mass Transportation Administration, Washington, DC, Office of Research, Development and Demonstration
SO - PB-285 427

157. AU - Stephens, J.E. Jr.; Reid, J.W. Jr.
TI - Tractor, wheeled, warehouse, gasoline, 4000-pound-drawbar-pull, Pneumatic-Tire-User Survey
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA
SO - Mar 78, 52 p, ADA 058206

158. AU - Criswell, A.W.; Martin, L.E.; Thibodeau, R.C.
TI - Mobility analysis of IFV Task Force alternatives
OS - Army Materiel Systems Analysis Activity, Aberdeen Proving Ground, MD
SO - Jul 78, 59 p, ADA 057118

159. AU - Stephens, J.E. Jr.; Reid, J.W. Jr.
TI - Tractor, wheeled warehouse, gasoline, 4000-pound-drawbar-pull, Pneumatic-Tire-Manufacturer Survey
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA
SO - Mar 78, 30 p, ADA 058156

160. AU - Dowgiallo, E.J. Jr.; Bailey, C.E. Jr.; Snelling, I.R.; Blake, W.H.; Sherwood, D.
TI - Baseline tests of the EVA Metro Electric Passenger Vehicle

OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA
SO - May 78, 123 p, ADA 056927

161. AU - Heberlein, D.C.
TI - Hardening of countermine structures
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA
SO - Jun 78, 15 p, ADA 056445

162. AU - Dowgiallo, E.J.
TI - Hybrid power source for vehicular propulsion
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA
SO - 1978, 14 p, AD-A056 427

163. AU - Stephens, J.E., Jr; Reid, J.W., Jr
TI - Forklift trucks, gasoline-engine-driven, 4000 to 6000-pound-capacity - user survey
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA
SO - Feb 78, 78 p, ADA 053770

164. AU - Stephens, J.E., Jr; Reid, J.W., Jr
TI - Forklift trucks, gasoline-engine-driven, 4000 to 6000-pound-capacity - Manfacturer Survey
OS - Army Mobility Equipment Research and Development Command, Fort Belvoir, VA
SO - Feb 78, 78 p, ADA 055416

165. AU - Pabon, R.J.; Hamlin, R.S.; Martray, R.A.
TI - Analysis of mobility data from the Division Restructuring Evaluation Battalion Test
OS - Army Combined Arms Combat Developments Activity, Fort Leavenworth, KS
SO - Apr 78, 148 p, ADA 054830

166. AU - Martin, L.E.; Niemeyer, W.A.
TI - A mobility analysis of vehicles participating in S-Tank Agility-Survivability (STAGS) Testing
OS - Army Materiel Systems Analysis Activity, Aberdeen Proving Ground, MD
SO - Sep 77, 66 p, ADA 053731

167. AU - Wise, S.
TI - Convoy Counterambush Weapon Systems
OS - Army Limited War Lab, Aberdeen Proving Ground, MD
SO - Mar 66, 31 p, AD 375758

168. AU - Green, A.J.; Smith, J.L.: Murphy, N.R.
TI - Measuring soil properties in vehicle mobility, research; strength-density relations of an air-dry sand

OS - Waterways Experiment Station, Vicksburg, MS, 39180
SO - WES TR-3-652; 1964

169. AU - Melzer, K.J.
TI - Power requirements for wheels operating in fine-grained soils
SO - Waterways Experiment Station, Misc Paper M-73-2, Apr 1973

170. AU - Turnage, G.W.
TI - Measuring soil properties in vehicle mobility research
SO - U.S. Waterways Experiment Station, Tech. Rep. n 3-652, Jun 1973, 74 p
IT - soils, trafficability, soil mechanics, clay

171. AU - Liston, R.A.
TI - The effect of low visibility on the performance of vehicle operators
SO - Cold Regions Research and Engineering Lab., 1972

172. AU - Rula, A.A.; Freitag, D.R.; Knight, S.J.
TI - Concepts for vehicles for off-road use in remote areas
SO - Waterways Experiment Station, Misc Paper 53, 1966

173. AU - Mcrae, J.L.
TI - Theory for a towed wheel in soil
SO - Waterways Experiment Station, Misc Paper 4-626, 38 p, Sept 1964

174. AU - Douglas, B.E.
TI - Mobility/radiation factor evaluations as design aids for high performance vehicles
SO - Intl. Institute of Noise Control Engineering; 8332 Zurich-Ruschikn; Switzerland, Proceeding, 1976

175. AU - Erlbaum, N.S.; Hartgen, D.T.; Cohen, G.S.
TI - Automotive energy forecasts: impact of price, availability, and efficiency
OS - New York State Department of Transportation; Planning Division; Albany, New York, 12232
SO - Res. Report 133, 1977, 99 p

176. AU - Hupkes, G.
TI - Throttle open or throttle down. Scenarios for the future of the transportation system, part I and II
OS - Uitgeverij Kluwer BV; 8 Stromarkt; Deventer; Netherlands, 1977

177. TI - WES papers presented at international conference, International Society for Terrain-Vehicle Systems, 5th, Held in Detroit - Houghton, Michigan, June 2-6, 1975
OS - Waterways Experiment Station, Vicksburg, MS, 39180
SO - Report No.: AEWES-N-MISC Pap M-575, AD-A012653/2ST, 1975

178. AU - Rula, A.A.; Nuttall, C.J.; Dugoff, H.J.
TI - Vehicle mobility assessment for Project Wheels Study Group
OS - Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-73-1; 1972, AD-A008286/7ST

179. TI - Amphibious ice breaking craft
SO - Ship and Boat International, Vol. 27, No. 12, Dec 1974, p 20

180. AU - Al-Hussaini, M.M.; Gilbert, P.A.
TI - Stressed and shearing resistance in soil beneath a rigid wheel
OS - Waterways Experiment Station, Vicksburg, MS, 39180
SO - AEWES-TR-S-74-7, 1974, AD/A-000609/8SL

181. AU - Bader, H.; Tyree, D.; Love, H.
TI - Arctic logistics support technology
OS - Arctic Institute of North America
SO - Dec 1971, 50 p, AD 734646

182. AU - Brown, R.L.
TI - Volumetric Constitutive Law for snow subjected to large strains and strain rates
OS - U.S. Army Corps of Eng, Cold Regions Research and Engineering Lab., Hanover, NH
SO - CRREL Rep 79-20, Aug 1979, 18 p
IT - snow and snowfall; measurement mathematical models; roads and streets; snow and ice control

183. AU - Turnage, G.W.
TI - Trafficability and stability analysis for bottom-crawling work vehicles in the nearshore region
SO - Offshore Technol Conf, 11th, Proc, Houston, Tex, Apr 30-May 3 1979. Publ by Offshore Technol Conf, 6200 N. Central Expressway, Dallas, Tex, 1979, v 3, p 1913-1927
IT - bottom-crawling vehicles

184. AU - Windisch, E.J.; Yong, R.N.
TI - Determination of soil strain-rate behaviour beneath a moving wheel
SO - Journal of Terramechanics, 1970, v. 7(1), p 55-67
LA - Eng, Fre, Ger
IT - plasticity; soil mechanics; soil trafficability; strain rate; vehicle wheels; x-ray anaylsis

185. TI - Cold Regions Research and Development Symposium
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 80, March 1964, 185 p
LA - Eng
IT - whiteout; ice fog; research projects; military operation; visibility; fog dispersal; glacier ablation; sewage disposal; pile foundations; remote sensing; frozen ground mechanics; muskeg; trafficability

186. AU - Pihlainen, J.A.
TI - A review of muskeg and its associated engineering problems
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Rept. No. TR 97, Dec 1963
LA - Eng
IT - muskeg; construction equipment

187. AU - Diamond, M.; Hansen, B.L.
TI - Use of a shear vane in snow
SO - U.S. Army Cold Regions Research and Engineering Laboratory (SIPRE), Report Number TR 40, July 1956, 10 p
LA - Eng
IT - trafficability; measuring instruments; snow strength; shear strength

188. AU - Taylor, A.
TI - Snow compaction
SO - U.S. Army Cold Regions Research and Engineering Laboratory (SIPRE), Report Number TR 13, Jan 1953, 64 p
LA - Eng
IT - snow compaction; snow roads; trafficability; snow crystals

189. TI - Some aspects of snow, ice, and frozen ground
SO - U.S. Army Cold Regions Research and Engineering Laboratory (SIPRE), Report Number TR 10, Aug 1953, 32 p
LA - Eng
IT- snow physics; trafficability; engineering

190. AU - Sartori, E.
TI - Winter trafficability experiments in Vaud Canton
OTI - Experiences faites dans le canton de Vaud sur la viabilite hivernale
SO - Strasse und Verkehr, Feb 1970, v. 56(2), p 65-70
La - Fre
IT - snow removal; road maintenance

191. AU - Ager, B.H.
TI - On snow properties and snow stabilization
OTI - Om snons egenskaper och snostabilisering
SO - Forskningsstiftelsen Skogsarbeten. Meddelande, 1965, No. 3, 41 p
LA - Swe, Eng
IT - snow compaction; snow density; snow roads; trafficability

192. AU - Ragozin, B.K.
TI - Passenger transport on waterways of Siberia and the Far East
OTI - Razvitie passazhirskikh perevozok na vodnykh putiakh Sibiri i Dal'nego Vostoka
SO - Novosibirsk. Institut inzhenerov vodnogo transporta. Trudy, 1968, Vol. 27, p 25-32

LA - Rus
IT - trafficability; icebound rivers

193. AU - Gerasimov, V.N.
TI - Organizing year-round traffic on Siberian rivers
OTI - Effektivnost' organizatsii kruglogodovykh perevozok po rekam Sibiri
SO - Novosibirsk. Institut inzhenerov vodnogo transporta. Trudy, 1968, Vol. 27, p 10-17
LA - Rus
IT - trafficability; icebound rivers

194. AU - Ashdown, K.; Radforth, N.W.
TI - Trafficability of organic terrain
SO - National Research Council, Canada, Associate Committee on Geotechnical Research. Technical memorandum, Muskeg Research Conference, 11th, May 1965, Proceedings, May 1966 - No. 87, p 184-190
LA - Eng, Fre
IT - bearing strength; trafficability; muskeg; vehicles

195. TI - Proceedings of the 11th Muskeg Research Conference, 6 and 7 May 1965
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, 1966 - No. 87, 212 p
LA - Eng, Fre
IT - Canada; peat; permafrost; trafficability; aerial photogrpahy; construction; muskeg

196. AU - Benson, C.S.
TI - Physical properties of the snow cover in the Ft. Greely area, Alaska
SO - Rept. No. MP 58, 47, 11 refs., College, Alaska, Univ. of Alaska. Geophysical Institute, - Feb 1968
LA - Eng
IT - United States - Alaska - Fort Greely; snow cover; snow physics; trafficability

197. AU - Gimein, S.
TI - Ice - friend and enemy
OTI - Led - drug i vrag)
SO - Sel'skii mekhanizator, Feb 1968, No. 2, p 40-41
LA - Rus
IT - trafficability; ice cover; load distribution; ice structure; icebound rivers

198. AU - Kostogryz, S.G.
TI - Calculating resistance to tracked vehicle movement on weak grounds
OTI - Metodika otsenki soprotivleniia dvizheniiu gusenichnykh lesnykh mashin po slabym gruntam

199. AU - Volkova, A.E.; Zelentsova, L.I.
TI - Frozen ground excavation equipment
OTI - Mashiny dlia razrabotki merzlykh gruntov
SO - Biulleten' stroitel'noi tekhniki, July 1978, No. 7, p 43-48
LA - Rus
IT - earthwork; excavating equipment; tracked vehicles; frozen ground

200. AU - Trantham, A.W.
TI - Product improvement test of T130E1 track and suspension components
SO - U.S. Army Cold Regions Test Center. Report, Apr 1977, 16 p
LA - Eng
IT - tracked vehicles; low temperature tests

201. AU - Brown, A.M.; Smith, F.A.
TI - Experience with Nodwell RN110B tracked carrier
SO - Antarctic Treaty Meeting of Experts on Logistics, Tokyo, 1968, Records, Tokyo, Ministry of Education, 1968, p 321-328
LA - Eng
IT - vehicles-Nodwells; Wilkes Station

202. TI - Transporter, four tracked, 8-axle 24,000-pound (Nodwell RN200) Phase II: subarctic evaluation
OS - U.S. Army Transportation Board, Fort Eustis, VA
SO - Rept. No. TCB-61-136-EV, Nov 1962, 35 p
LA - Eng
IT - vehicles-Nodwells

203. AU - Sherwood, G.E.; Beard, W.H.
TI - Polar transportation equipment - hydraulic cranes for cargo vehicles
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, Calif. Techinical note, Sept 1965, N-770, 7 p
LA - Eng
IT - logistics; vehicles; cargo operations; Antarctica - McMurdo Station

204. AU - Leslie, H.C.
TI - Arctic operation experiences with tracks and wheels
SO - Symposium on Tracks or Wheels, Calgary, Alberta, June 3-4, 1976, VIII/1-VIII/5, Calgary, Canadian Society for Terrain Vehicle Systems, 1977
LA - Eng
IT - tracked vehicles; tires; winter maintenance

205. AU - Steltner, H.A.R.
TI - Transportation of personnel, instruments and equipment of first-year sea ice for oceanographic survey and research purposes
SO - International Conference on Port and Ocean Engineering Under Arctic Conditions, 4th, St. John's, Sep 26-30, 1977, p 485-493, Memorial University of Newfoundland, 1978

LA - Eng
IT - research projects; sea ice; sleds; tracked vehicles

206. AU - Novikov, IU.P.; Rogozhin, V.P.; Samokhvalov, L.S.
TI - Results of experiments with cab heating in tracked vehicles in the Far North
OTI - Rezul'taty eksperimental'nogo issledovaniia v oblasti teplovogo rezhima kabiny gusenichnogo transportera, rabotaiushchego v usloviiakh Krainego Severa
SO - Gorkii. Politekhnicheskii institut. Trudy, 1969, v. 25(9), p 57-63
LA - Rus
IT - tracked vehicles; heating

207. AU - Slaughter, C.W.
TI - Site access for a subarctic research effort
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 76-09, Apr 1976, 13 p
LA - Eng
IT - research projects; remote sensing

208. AU - Abele, G.
TI - Effects of hovercraft, wheeled and tracked vehicle traffic on tundra
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, Muskeg Research Conference, 16th, Oct 7, 1976. Proceedings, Report Number MP 1123, Mar 1976-No. 116, p 186-215
LA - Eng
IT - air cushion vehicles; tracked vehicles; vehicle wheels; tundra vegetation; damage

209. AU - Wilson, N.E.
TI - Peat under cyclic load
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, Muskeg Research Conference, 16th, Oct 7, 1976. Proceedings, Mar 1976-No. 116, p 144-151
LA - Eng
IT - peat; muskeg; stresses; tracked vehicles; damage

210. AU - Lancaster, W.V.
TI - Moccasin tracks
SO - Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, p 249-255, Anchorage, AL, Bureau of Land Management, Aug 1976
LA - Eng
IT - vehicle wheels; Arctic vegetation; tracked vehicles

211. AU - Bekker, M.G.
TI - Tracks in muskeg

SO - Sweden. Samarbetsorganisationen for fordon-markforskning. Specialnotiser fran SFM, 1975-No. 15, 38 p
LA - Eng
IT - protection; computer programs; tundra; muskeg; tracked vehicles; loads (forces); air cushion vehicles; mathematical models; organic soils

212. AU - Efremenko, V.P.
TI - Construction machines for the North
OTI - O mashinakh dlia stroek Severa
SO - Mekhanizatsiia stroitel'stva, Sept 1974-No. 9, p 2-3
LA - Rus
IT - frozen ground; tank cars; cold weather construction; cranes; construction equipment; tracked vehicles; excavating equipment

213. AU - Liston, R.A.
TI - Strip load approximation for a track
SO - American Society of Agricultural Engineers, Winter Meeting, 1973. Proceedings, Report Number MP 723, 47+15 p, St. Joseph, Michigan, American Society of Agricultural Engineers, 1973
LA - Eng
IT - soil mechanics; soil strength; tracked vehicles; dynamic loads; settlement (structural)

214. AU - Hjeljord, O.
TI - Studies of revegetation in vehicle tracks in Svalbard
OTI - Studier av revegetasjonsforlop i gamle traktorspor pa Svalbard
OS - Norsk Polarinstitutt
SO - Oslo. Norsk Polarinstitutt. Arbok, 1971 (Publ. 1973), p 31-42
LA - Nor, Eng
IT - tundra vegetation; damage; tracked vehicles; soil erosion; ground thawing

215. AU - Mikhailov, P.M.; Chizhov, V.V.
TI - ETTS-131 chain-type trench excavator for laying drainage during the winter
SO - U.S. Army Foreign Science and Technology Center. Translation, March 1973-FSTC-HT-23-969-73, 4 p, Translation of Stroitel'nye i Dorozhnye Mashiny, No. 2, 1972, p 20-21
LA - Eng, Rus
IT - excavating equipment; tracked vehicles; subsurface drainage; pipe laying

216. AU - Kerfoot, D.E.
TI - Topographic aspects of artificial disturbances to the tundra in the Mackenzie Delta area, N.W.T.
SO - Mackenzie Delta area monograph, edited by D.E. Kerfoot, p 157-174, St. Catherines, Ontario, Brock University, 1972
LA - Eng

IT - Canada - Northwest Territories - Inuvik; tundra vegetation; deformation; tracked vehicles; frozen ground analysis; thaw depth; active layer thickness; thermokarst; subsidence

217. TI - Tractors with inflatable Caterpillar tracks
OTI - Traktor s naduvnymi gusenitsami
SO - Izobretatel' i ratsionalizator, Sept 1972-No. 9, p 16-17
LA - Rus
IT - swamps; tractors; tracked vehicles

218. AU - Dogaev, IU.M.
TI - Basic trends in technical progress of railless transportation on land in northern regions
OTI - Osnovnye napravleniia tekhnicheskogo progressa na sukhoputnom bezrel'sovom transporte Severa
SO - Problemy severa, 1972-Vol. 17, p 91-102
LA - Rus
IT - cold weather performance; transportation; motor vehicles; tracked vehicles

219. AU - Summer, N.R., Jr.; Alper, S.; Girard, E.W.; Villu, A.
TI - Transportation systems for military and civilian operations in northern regions
SO - Research Analysis Corporation Technical paper, June 1972-RAC-TP-450, 130 p
LA - Eng
IT - tracked vehicles; economics; cold weather operation; environmental tests; transportation; military transportation; air cushion vehicles

220. AU - Hosoya, M.; Tsuchiya, K.; Yamamoto, R.
TI - Report on the operation of mechanical transport for the JARE South Pole Traverse 1968-1969
SO - Japanese Antarctic Research Expedition. Scientific reports, March 1971 - Special Issue No. 2, p 204-261
LA - Eng
IT - performance; maintenance; traverses; tracked vehicles

221. AU - Pierce, N.E.
TI - Specifications for the M-29 Cargo Carrier Pickup
SO - U.S. Naval Civil Engineering Labortory, Port Hueneme, CA, Technical Note, Jan 1964, N-569, 11 p
LA - Eng
IT - transportation; tracked vehicles; specifications

222. AU - Rush, B.G.; Dawes, J.R.
TI - Winterization of M29C Cargo Carrier
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Dec 1951-N-64
LA - Eng
IT - tests; transportation; cold weather opertion; cargo; tracked vehicles

223. AU - Pierce, N.E.; Taylor, D.
TI - Polar Transportation - analysis of tracked personnel and cargo carriers for McMurdo, Antarctica
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical report, April 1966-R-436
LA - Eng
IT - Antarctica - McMurdo; transportation; tracked vehicles

224. AU - Rymes, J.E.
TI - Significance of track design approach angle to critical bearing conditions of muskeg
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, March 1967-No. 90, p 57-62
LA - Eng, Fre
IT - classifications; muskeg; bearing strength

225. AU - Uffelmann, F.L.
TI - Soft ground performance of a vehicle when provided with an air pressure load relief system
SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug 29 - Sept 2, 1966, Quebec. Proceedings, p 475-497, 6 refs., Toronto, - Univ. of Toronto Press, 1966
LA - Eng
IT - performance; analysis (mathematics); vehicle wheels; tracked vehicles; slopes; trafficability; soil pressure

226. AU - Okamura, A.
TI - Application of rubber crawler "Ohtsu Mighty Pillar" for engined tillers
SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug 29 - Sept 2, 1966, Quebec. Proceedings, p 84-100, Toronto, - Univ. of Toronto Press, 1966
LA - Eng
IT - performance; vehicles

227. AU - Radforth, J.R.; Roe, P.H.
TI - Computer modelling of tracked vehicles on muskeg
SO - International Peat Congress, 3d, Aug 18-23, 1968, Quebec. Proceedings, p 65-68, In English with French summary. Ottawa, National Research Council, Canada, 1968
LA - Eng, Fre
IT - design criteria; muskeg; computer applications; mathematical models

228. AU - Kuvshinov, IA.
TI - Using Caterpillar tractors in winter
OTI - Ispol'zovanie gusenichnykh traktorov zimoi
SO - Tekhnika v sel'skom khoziaistve, Dec 1967 - 27(12), p 42-44
LA - Rus
IT - cold weather operation; maintenance

229. AU - Nadrshin, T.
TI - Sleds should be ready in summer
OTI - Gotov' sani letom
SO - Tekhnika v sel'skom khoziaistve, March 1966 - 26(3), p 53-56
LA - Rus
IT - sleds

230. AU - McGhee, R.B.; Olson, K.W.; Briggs, R.L.
TI - Electronic coordination of joint motions for terrain-adaptive robot vehicles
SO - Society of Automotive Engineers, Technical Paper No. 800382
IT - all-terrain vehicles; automatic control; computer applications; lunar behicles; Mars probes

231. AU - Chalmers, W.G.
TI - A new concept in commercial vehicle suspension
SO - Society of Automotive Engineers, Technical Paper No. 730654
IT - rubber-synthetic rubber; suspension systems; truck design; truck trailers

232. AU - Petelski, N.; Davis, L.
TI - Vcon 3006-truck-extending tire capacity through innovation
SO - Society of Automotive Engineers, Technical Paper No. 730285. Also published in SAE Transactions, Vol. 76
IT - suspension systems; tires; truck operation - truck performance

233. AU - Davis, L.
TI - Vcon 3006 - a new concept in large mining trucks
SO - Society of Automotive Engineers, Technical Paper No. 720376
IT - mining equipment

234. AU - Pierrot, V.C.; Gustafson, M.L.
TI - Forest mechanization - a challenge to the industry
SO - Society of Automotive Engineers, Technical Paper No. 670690. Also published in SAE Transactions, Vol. 76
IT - wood; logging equipment

235. AU - Yong, R.N.; Harrison, W.L.
TI - On vehicle mobility in snow-covered terrain. 1. Problem development and requirements for analysis
SO - Journal of Terramechanics, Dec 1978, 15(4), p 223-235
LA - Eng
IT - snow density, dynamic loads; snow cover effect; trafficability; snow cover structure; heat transfer; solar radiation; vehicles; interfaces

236. AU - Da Rios, G.; Pirani, G.
TI - Demand for winter mobility on highways
OTI - La domanda di mobilita stradale nel periodo invernale
LA - Ita
IT - cost analysis; winter maintenance; snow removal; ice removal; trafficability; accidents

237. TI - Requirement for identification and characterization of snow for mobility purposes
OS - International Society for Terrain-Vehicle Systems. Committee on Snow Mechanics Research Coordination
SO - McGill University, Montreal. Geotechnical Research Centre. Soil mechanics series, May 1978-No. 40, Prepared for the 6th International Conference of the I.S.T.V.S., Vienna, Aug 1978
LA - Eng
It - all-terrain vehicles; snow strength; trafficability; classifications; snow mechanics; snow vehicles

238. AU - Scholander, J.
TI - Vegetation strength in the upper layer according to mobility tests - a review
OTI - Nagra erfarenheter av vegetationstackets hallfasthet i samband med fordonsprovning
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM meddelande, 1977-No. 22, p 13-29
LA - Swe, Eng
IT - bearing capacity; arctic vegetation; muskeg; strength; soil trafficability

239. AU - Silvennoinen, U.; Haarlaa, R.
TI - Aspects on the mobility of logging tractors on snow.
SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972. Proceedings. Vol. 2, p 205-213, 2 refs., Stockholm, Sweden, 1972.
LA - Eng
IT - tests; tracked vehicles; snow strength; snow cover stability; trafficability; tractors

240. AU - Frost, R.E.; Johnson, P.L.; Leighty, R.D.; Anderson, V.H.; Poulin, A.O.; Rinker, J.N.
TI - Mobility Environmental Research Study: a quantitative method for describing terrain for ground mobility. Vol. VI. Selected air-photo patterns of terrain features
SO - U.S. Army Cold Regions Research and Engineering Laboratory, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. Technical Report No. 3-726, Report Number MP 556, May 1966, 150 p
LA - Eng
IT - Thailand; terrain analysis; aerial photography; photointerpretation; vegetation patterns

241. AU - Hibler, W.D., III; Ackley, S.F.
TI - Height variation along sea ice pressure ridges and the probability of finding "holes" for vehicle crossings
SO - Journal of Terramechanics, Dec 1975, 12(3/4)
LA - Eng
IT - sea ice; pressure ridges; air cushion vehicles; ice crossings;

242. AU - Wastenson, L.
TI - Mapping off-the-road mobility of terrain vehicles
OTI - Kartering av framkomlighetsmojligheter for terrangfordon
SO - Uppsala. Universitet. Naturgeografiska institutionen. UNGI rapport, 1974, No. 34, p 403-418
LA - Swe, Eng
IT - soil trafficability; motor vehicles; terrain identification; aerial photographs; photointerpretation

243. TI - TACOM's Arctic Test Center integrates effort...linked to USARAL training mission, emphasizing far north mobility
SO - Army Research and Development, Nov-Dec 1973-14(6), p 16-18
LA - Eng
IT - military equipment; military research

244. AU - Areskoug, S.
TI - Proposed method for determining mobility of vehicles and motorized units on the road and cross country
OTI - Forslag till metod for restamning av fordons och motoriserade forbands rolighet pa vag och i terrang.
SO - U.S. Army Foreign Science and Technology Center. Technical translation, March 15, 1973-FSTC-HT-23-1850-72, 42 p
LA - Eng, Swe
IT - trafficability; all-terrain vehicles; terrain analysis; design criteria

245. AU - Forsyth, R.W.; Forsyth, J.P.
TI - New high-mobility military vehicles
SO - Automotive Industries, April 1965, 132(8), p 102
LA - Eng
IT - all-terrain vehicles

246. AU - Magnussen, G.L.; Aulin, B.H.
TI - Some off-road mobility studies in Sweden
SO - Sweden. Forsvarets forskningsanstalt. Avdelning 2. FOA 2. Rapport, Feb 1971, A2536-97, 11 p
LA - Eng
IT - military operation; computerized simulation; vehicles

247. AU - Liston, R.A.
TI - Surface effect vehicle engineering test procedures
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 161, Aug 1971, 28 p
LA - Eng
IT - slopes; air cushion vehicles; performances; tests

248. AU - Weiss, S.J.
TI - Use of the Soil Truss Mark 2 in determining the shearing strength characteristics of a snow cover
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, Jan 1952, N-75, 5 p
LA - Eng
IT - trafficability; snow cover; shear strength; test equipment

249. AU - Yoder, E.J.; Hampton, D.
TI - Pavement profile and roughness measurement (a review of methods)
SO - U.S. Army Cold Regions Research and Engineering Laboratory (ACFEL), Report Number ACFEL TR 73, June 1960, 51 p
LA - Eng
IT - pavements; surface roughness; measurement; instruments; profiles

250. AU - Leighty, R.D.
TI - Terrain mapping from serial photography for purposes of vehicle mobility
SO - Journal of Terramechanics, Report Number MP 266, 1965-2(3), p 55-67
LA - Eng
IT - photointerpretation; terrain analysis; photogrammetry; trafficability

251. AU - Gerdel, R.W.
TI - Influence of Arctic environment on military mobility
SO - Society of Automotive Engineers. Automotive Engineering Congress, Detroit, MI, Jan 14-18, 1963, Report Number MP 131, Jan 1963-No. 623C, 12 p
LA - Eng
IT - snow cover; ice cover strength; snow vehicles; military engineering; trafficability

252. AU - Goodman, L.J.
TI - Significance of disturbance and thixotropy in mobility problems
SO - International Society for Terrain-Vehicle Systems. 2nd International Conference, Aug 29-Sept 2, 1966, Quebec. Proceedings, p 247-278, Toronto, Univ. of Toronto Press, 1966
LA - Eng
IT - analysis (mathematics); clay soils; thixotropy; trafficability

253. AU - Nuttall, C.J., Jr.
TI - Ground-crawling; 1966 the state-of-the-art of designing off-road vehicles
SO - U.S. Waterways Experiment Station, Vicksburg, MI, 1967, 307 p
LA - Eng
IT - design criteria; topographic factors; vehicles; soil trafficability

254. AU - Melamed, V.G.
TI - Effect of the Ice-Separation Curve on the problems concerning freezing-thawing of soil with varied moisture content
OTI - O vliianii krivoi l'distosti na protsess promerzaniia i ottaivaniia gruntov s razlichnoi estestvennoi vlazhnost'iu
SO - Merzlotnye issledovaniia, Vol. 6, 1966, p 20-27
LA - Rus
IT - analysis (mathematics); soil freezing; thawing

255. TI - Vehicle mobility research, Parry Sound - 1966
OS - McMaster University, Hamilton, Ontario. Organic and Associated Terrain Research Unit
SO - Canada. Defence Research Board. DWER report, Dec 1968, No. 2/67, 19 p
LA - Eng
IT - muskeg; vehicles; trafficability; peat

256. AU - Hoekstra, P.; Miller, R.D.
TI - On the mobility of water molecules in the transition layer between ice and solid surface
SO - Journal of Colloid Science, Oct 1967, v. 25(2), p 166-173
LA - Eng
IT - ice solid interface; soil moisture migration; electroosmosis; frozen ground

257. AU - Chu, M.L.; Doyle, G.R.
TI - Nondeterministic analysis of a four-wheeled model vehicle traversing a simulated random terrain
SO - Society of Automotive Engineers, Technical Paper No. 780789
IT - mathematical analysis; mobility research; simulation; suspension systems; vehicle dynamics

258. AU - Sloss, D.A., Jr.; Brady, P.M., Jr.
TI - Evaluation of the Landing Vehicle Assault (LVA) over-land performance
SO - Society of Automotive Engineers, Technical Paper No. 780127
IT - military vehicle mobility; models; amphibious vehicles; soil mechanics; mobility research

259. AU - Alden, J.T.
TI - The self-supporting tire: a new concept in vehicle mobility
SO - Society of Automotive Engineers, Technical Paper No. 770349
IT - tires

260. AU - Wheeler, P.
TI - Tracked Vehicle Ride Dynamics Computer Program
SO - Society of Automotive Engineers, Technical Paper No. 770048
IT - computer simulation; military vehicle mobility; mobility research; ride evaluation; vehicle dynamics

261. AU - James, D.H., Keen, H.M.
TI - The DENOVO Run flat tire
SO - Society of Automotive Engineers, Technical Paper No. 760743
IT - tires; safety; mobility research; passenger car perofrmance

262. AU - Nodell, W.R.; Seely, J.H.
TI - A chronology and development status of the amphibious assault landing craft, JEFF(A)
SO - Society of Automotive Engineers, Technical Paper No. 750717
IT - aerospace production; automatic control; design; steels

263. AU - Warner, D.R.
TI - Three generations of Soviet wheeled military transport vehicles
SO - Society of Automotive Engineers, Technical Paper No. 750219
IT - all-terrain vehicles; military transportation; military vehicle mobility; military vehicles; truck design; truck operation-truck performance

264. AU - Beck, R.R.; Kamm, I.O.
TI - A cybernetically coupled research vehicle
SO - Society of Automotive Engineers, Technical Paper No. 750217
IT - actuators; automatic control; military vehicle mobility; attitude control; hydraulic systems; military vehicles

265. AU - Bradisse, J.L.; Ramsey, A.F.; Sacia, S.R.
TI - Mobile truck tire-traction test system
SO - Society of Automotive Engineers, Technical Paper No. 741138
IT - tires; test equipment; truck operation-truck performance

266. AU - Gilvin, L.P.
TI - Fifty years of earthmoving in west Texas
SO - Society of Automotive Engineers, Technical Paper No. 740417
IT - production control; military vehicle mobility; reliability; transportation

267. AU - Hearn, D.L.; Van Dorn, N.H.
TI - Modern tranportation systems
SO - Society of Automotive Engineers, Technical Paper No. 740225
IT - transportation; rapid transit; systems engineering

268. AU - Schreiner, B.G.; Czako, T.
TI - Results derived from Soil-Vehicle Field Test Program of MEXA Design Vehicles
SO - Society of Automotive Engineers, Technical Paper No. 730037
IT - military vehicle mobility; soil mechanics

269. AU - Siorek, R.W.
TI - Experimental investigation of effect of wheel travel on tracked vehicle mobility
SO - Society of Automotive Engineers, Technical Paper No. 730036
IT - military vehicle mobility; shock absorbers; springs; suspension systems; vehicle performance; wheels

270. AU - Birk, E.L.
TI - Armored reconnaissance scout vehicle development program
SO - Society of Automotive Engineers, Technical Paper No. 730035
IT - military vehicles

271. TI - Run-flat tire uses double bead, reinforced sidewall
SO - Automotive Engineering, (Warrendale PA) v 87, n 6, Jun 1979, p 91-93
IT - tires; testing

272. AU - Yong, R.N., Fattah, E.A., Boonsinsuk, P.
TI - Analysis and prediction of type-soil interaction and performance using finite elements
SO - J Terramech, v 15, n 1, Mar 1978, p 43-63
IT - vehicles - soil factors; tires - traction; mathematical techniques - finite element method

273. AU - Yong, R.N.; Fukue, M.
TI - Performance of snow in confined compression
OS - McGill Univ., Montreal, Que
SO - J Terramech, v 14, n 2, Jun 1977, p 59-82
IT - snow and snowfall - mechanical properties; vehicle - off-road operational

274. AU - Penaluna, K.D.; Mikes, R.J.
TI - Economic and mobility considerations in truck tire and retread selection
OS - Ruan Transp Corp
SO - Proc., SAE Highw Tire Noise Symp, San Francisco, CA, Nov 10-12, 1976, Publ by SAE (P-70), Warrendale, PA, 1977 Pap 762001 p 9-12
IT - motor trucks; tires; tires; costs

275. AU - Dowgiallo, E.J., Jr.; Snellings, I.R.; Blake, W.H.
TI - Battery powered jeep and van performance
OS - US Army Mobility Equip Res & Dev Command
SO - SAE Prepr n 770387 for Meeting, Feb 28-Mar 4, 1977
IT - storage battery vehicles; motor trucks - electric, electric batteries - secondary

276. AU - Zimmerman, M.D.
TI - One down, one to go: shootout over the next main battle tank
SO - Machine Design, v 48, n 28, Dec 9 1976 p 28-30
IT - military vehicles - design

277. AU - James, D.H.; Keen, H.M.
TI - Denovo run flat tire
OS - Dunlop Ltd, Gateshead-on-Tyne, England
SO - SAE Prepr n 760743 for Meeting Oct 18-22, 1976 7 p
IT - tires - design; automobiles - tires

278. AU - Steig, R.W.
TI - Construction truck front tandem suspension with one driving axle
OS - Mack Trucks, Inc, Allentown, PA
SO - SAE Prepr n 760253 for Meeting, Feb 23-27, 1976, 10 p
IT - motor trucks - design; construction equipment

279. AU - Chin, F.K.; Watts, R.
TI - On vehicle mobility measurement & recording system
OS - Gen Am Transport Corp, Niles, IL

SO - Natl Bur Stand Spec Publ n 436, 1975, for 22nd Meet of Mech Failures Prev Group, Anaheim, CA, Apr 23-25, 1975, p 195-220
IT - automobiles, testing; transducers; signal processing - computer applications

280. AU - Thomas, I.A.
TI - Northern off-road transportation in the 70's
OS - Canadair Flextrac Ltd, Calgary, Alta
SO - ASCE; J Constr Div, v 101, n 3, Sep 1975, p 635-646
IT - vehicles - off road operation; transportation - costs; construction industry - cold weather problems

281. AU - Koehler, K.A.
TI - Stabilized combat compartment in armored vehicles
OTI - Der Stabilisierte Kampfraum Im Panzerfahrzeug
OS - Rheinstahl, Kassel, Ger
SO - Wehrtechnik, n 4, Apr 1975, p 146-152
IT - military vehicles

282. AU - Linnenbrink, T.E.; Gamache, D.L.
TI - Mo/Mars mobility measurement and recording system
OS - Gen Am Transp Corp, Niles, Ill
SO - Autom Support Syst for Adv Maintainability, Symp, ASSC Rec, Arlington, Tex, Nov 5-7, 1973, p 69-78. Publ by Institute of Electrical and Electronic Engineers, New York, 1973
IT - motor trucks - testing; data storage - magnetic - tape; mechanical variables measurement

283. AU - Lessem, A.S.
TI - Variable-Stress Vehicle Reliability Model
SO - US Waterway Experiment Station Tech Rep M-74-3, Apr 1974, 96 p
IT - vehicles - testing; mathematical models; reliability; stresses - analysis

284. AU - Nuttall, C.J., Jr.; Rula, A.A.; Dugoff, H.J.
TI - Computer model for comprehensive evaluation of cross-country vehicle mobility
OS - Army Waterways Experiment Station
SO - SAE Prepr n 740426 for Meeting, Apr 23-24, 1974, 24 p
IT - vehicles - off road operation; earthmoving machinery; mathematical programming

285. AU - Turnage, C.W.
TI - Resistance of coarse-grained soils to high-speed penetration
SO - US Waterways Experiment Station Tech Rep n 3-652, Jul 1974, 99 p
IT - soils - trafficability; vehicles - soil factors, sand and gravel

286. AU - Petring, F.W.
TI - Limited-slip differential as a winter driving traction aid

SO - Highw Res Rec, n 477, 1973, p 34-37
IT - cars; traction

287. AU - McKechnie, R.M., III
TI - Generalized vehicle dynamics program for interactive hybrid computer graphics
OS - US Army Mobility Equip Res and Dev Cent, Fort Belvoir, VA
SO - Summer Comput Simulation Conf, Proc, Montreal, Que, Jul 17-19, 1973, v 1, p 312-318. Available from Simulation Counc, Inc, La Jolla, CA, 1973
IT - military vehicles - electric; computer graphics; computers - hybrid

288. AU - Barber, V.C.; Murphy, N.R.
TI - Vehicle/Road Compatibility Analysis and Modification Systems (VRCAMS)
SO - US Waterways Experiment Station Tech Rep S-73-13, Dec 1973, 163 p
IT - military vehicles - riding qualities; soils - trafficability; roads and streets

289. AU - Neuheuser, H.
TI - Future artillery observation tank of the German Federal Armed Forces
OTI - Der Zukuenftige Artillerie-Beobachtungspanzer Der Bundedwehr
OS - Minist, BMVg, Bonn, Germany
SO - Wehrtechnik, n 2, Feb 1974, p 48-51
IT - military vehicles; guns; data processing - militry purposes

290. AU - Yong, R.N.
TI - Analytical predictive requirements for physical performance of mobility
OS - McGill Univ, Montreal, Quebec
SO - J Terramech, v 10, n 4, 1973, p 47-60
IT - soils - surveys; roads and streets - soil surveys

291. AU - Miszklevitz, S.L.
TI - Dynamic simulation of soil-wheel interaction
SO - Stevens Inst Technol, Davidson Lab, Rep n SIT-DL-73-1689, 1973, 63 p
IT - vehicles - soil factors; mathematical models; stresses - computer applications

292. TI - Report of the Ad Hoc Working Group on Innovative Mobility Concepts
SO - Stevens Inst Technol, Davidson Lab, Rep R-1714, Oct 1973, 56 p, appendices
IT - military vehicles - design; vehicles - off road operation

293. AU - Roesler, D.J.; Gaddy, L.D., Jr.
TI - Turbine-electric tractor-trailer test rig
OS - U.S. Army Mobility Res and Dev Center
SO - SAE Prepr n 730748 for Meeting, Sep 10-13, 1973, 10 p
IT - motor trucks - gas turbines

294. AU - Jurkat, M.P.
TI - Automatic path specification for the AMC 71 Mobility Model
OS - Stevens Inst of Technol, Hoboken, NJ
SO - Stevens Inst Technol, Davidson Lab, Rep n 1658, Sep 1973, 66
IT - military vehicles - computer programming

295. AU - Trindal, W.S.
TI - Technical analysis study of off-road tires
OS - US Army Mobility Equip Res and Dev Cent, Fort Belvoir, VA
SO - SAE Prepr n 730853 for Meeting, Sep 10-13, 1973, 15 p
IT - tires - testing; vehicles - off-road operation

296. AU - Schreiner, B.G.; Czako, T.
TI - Results derived from Soil-Vehicle Field Test Program of Mexa Design Vehicles
OS - US Army Corps of Engineers
SO - SAE Prepr n 730037 for Meeting, Jan 8-12, 1973, 11 p
IT - vehicles - off road operation; military vehicles; soil mechanics

297. AU - Ferber, E.
TI - Wheeled vehicle follow-on generation
OTI - Die Folgegeneration Der Radkraftfahrzeuge
OS - BMVg, Bonn, West Germany
SO - Wehrtechnik, n 2, Feb 1973, p 52-56
IT - military vehicles - West Germany; military engineering; military equipment - armor

298. AU - Wong, J.Y.
TI - Performance of the Air-Cushion-Surface-Contacting Hybrid Vehicle for overland operation
OS - Carleton Univ, Ottawa, Ontario
SO - Inst Mech Eng (London), Proc v 186, Pap n 50, 1972, p 613-623
IT - vehicles - off road operation

299. AU - LeSchack, L.A.; Long, J.B.
TI - Transportation studies show best way to breach jungle mining areas
OS - Development & Resources Transportation Co, Silver Spring, MD
SO - Eng Mining J, v 172, n 2, Feb 1971, p 89-93
IT - mineral exploration

300. AU - Hobson, D.E.; O'Brien, L.J.
TI - Bias balancing interaxle differential for constant 4-wheel drive

SO - SAE Pap 71016 for meeting June 7-11, 1971, 6 p
IT - automobiles - axles

301. AU - Schreiner, B.G.
TI - Mobility Exercise A (MEXA) Field Test Program 1
SO - U.S. Army Waterways Exp Sta, Corps Eng, Tech Rep M-70-11, Mar 1971, 112 p
IT - military vehicles

302. AU - Kaplan, M.H.
TI - Survey of Lunar Surface Mobility Systems
OS - Pennsylvania State Univ, University Park, PA
SO - Automatic Control in Space, 3, Proc 3rd IFAC Conf Mar 2-6, 1970. Instrument Society of America, 1970, p 175-82
IT - space vehicles - lunar landing

303. AU - Cole, L.M.
TI - Multiservice transport systems for urban mobility
OS - Univ of Texas, Austin, TX
SO - ASCE J Urban Plann Develop Div, v 97, m UPI paper 8025, Apr 1971, p 31-9
IT - city planning - transportation; transportation; rapid transit; subways

304. AU - Richardson, B.Y.; Cooper, A.W.
TI - Effects of articulated steering on tractive performance of a rubber-tired logging tractor
OS - U.S. Forest Service, Arlington, VA
SO - Trans; Amer Soc Agr Eng, Gen Ed, v 13, n 5, Sept-Oct 1970 p 633-5
IT - logging; tractors - agricultural; soils - trafficability

305. AU - Le Schack, L.A.; Long, J.B.
TI - Tracked vehicle transportation and the prediction of vehicle mobility in the jungle
OS - Development & Resources Transportation Co, Silver Springs, MD
SO - Int Soc for Terrain-Vehicle Systems, Inc, Proc of the 3rd Int Conf, July 9-12 1969, Essen, West Germany, Haus der Technik, Essen, v 2, 1969, p 243-71
IT - vehicles - off-road operation; tractors

306. AU - King, C.W.; Collins, G.C.
TI - Proving ground testing of a brushless electric-wheel system
SO - SAE Pap 710155 for meeting Jan 11-15, 1971, 14 p
IT - military vehicles - electric; motor trucks - electric

307. AU - Rountree, J.L.H.; Bowman, D.W.; Silberman, R.J.
TI - Ocean-floor bell tractor
OS - Wilson Industries, Inc, Houston, TX
SO - Mech Eng, v 92, n 7, July 1970, p 23-27
IT - diving apparatus; submersibles; oceanography

308. AU - Snider, W.L.
TI - Desert testing of military vehicles
SO - SAE-Paper 690354 for meeting Apr 15-16, 1969, 11 p
IT - military vehicles - testing

309. AU - Sachs, E.H.K.
TI - Proceedings of First International Conference on Vehicle Mechanics, Detroit, MI, July 16-18, 1968
SO - Wayne State Univ, Detroit, MI, 1969, 733 p
IT - vehicles; automobiles; motor trucks; agricultural machinery; military vehicles; naval vessels

310. AU - Denn, P.D.; Bradley, C.D.
TI - New concepts in off-road vehicles
OS - U.S. Army Tank Automotive Command, Warren, MI
SO - Mech Eng, v 92, n 1, Jan 1970, p 12-18
IT - vehicles - off-road operation; military vehciles

311. AU - Robinson, J.H.; Smith, R.P.; Richardson, B.Y.
TI - Trafficability tests with rubber-tired log skidder
SO - U.S. Waterways Experiment Station Misc Paper M-69-1, Jan 1969, 57 p
IT - military vehicles - soil factors; cars; roads and streets; tractors

312. AU - Lynn, D.K.; McCormick, J.B.; Bobbett, R.E.; Derouin, C.R.; Nachamkin, J.; Kerwin, W.
TI - Determination of vehicle rolling resistance and aerodynamic drag
OS - Los Alamos Sci Lab, NM
SO - IEEE Veh Technol Conf, 29th, Conf Rec of Pap, Arlington Heights, IL, Mar 27-30, 1979, Publ by IEEE (Cat n 79CH1378-9VT), New York, NY, 1979. Available from IEEE Serv Cent, Piscataway, NJ, p 292-295
IT - automobiles - friction; aerodynamics - drag; storage battery vehicles - measurements

313. AU - Pentyukhov, V.I.
TI - Airplane takeoff from unpaved airdromes
SO - Sov Aeronaut, v 20, n 4, 1977, p 108-111
IT - aircraft - takeoff

314. AU - Coddinton, D.M.
TI - Inflation pressure loss in tubless tires; effects of tire size, service, and construction
OS - Exxon Chem Co, Linden, NJ
SO - Rubber Chem Technol, v 52, n 5, Nov-Dec, 1979, p 905-919
IT - tires - tubeless; rubber testing; product design; mathematical techniques; identifiers - tire testing; inflation pressure loss; tire size

315. AU - Gee-Clough, D.
TI - Effect of wheel width on the rolling resistance of rigid wheels in sand
OS - Natl Inst of Agric Eng, Bedford, England
SO - J Terramech, v 15, n 4, Dec 1978, p 161-184
IT - wheels; vehicles - soil factors; sand and gravel; tires - traction

316. AU - Lou, A.Y.C.
TI - Relationship of tire rolling resistance to the viscoelastic properties of the tread rubber
OS - Firestone Tire & Rubber Co, Akron, Ohio
SO - Tire Sci Technol, v 6, n 3, Aug 1978, p 176-188
IT - tires - friction, viscoelasticity

317. AU - Clark, S.K.
TI - Rolling resistance of pneuamtic tires
OS - Univ of Mich, Ann Arbor, MI
SO - Tire Sci Technol, v 6, n 3, Aug 1978, p 163-175
IT - tires - friction; fuel economy

318. AU - Velinsky, S.A.; White. R.A.
TI - Increased vehicle energy dissipation due to changes in road roughness with emphasis on rolling losses
OS - Univ of Ill, Urbana, IL
SO - SAE Prepr n 790653 for meeting Jun 11-15, 1979, 13 p
IT - roads and streets - roughness measurement; mathematical models

319. AU - Tarpinian, H.D.; Nybakken, G.H.; Mishory, J.
TI - Fuel saving passenger tire
OS - Uniroyal Tire Co
SO - SAE Prepr n 790726 for meeting Jun 11-15, 1979, 13 p
IT - automobiles - tires; fuel economy

320. AU - Corcoran, P.T.
TI - Development of rubber tire mobility prediction
OS - Catepillar Tractor Co, Peoria, IL
SO - Pap ASAE for Summer meeting, Utah State Univ, Logan, UT, Jun 27-30, 1978. Publ by ASAE, St. Joseph, MI, 1978 Pap 78-1042, 9 p
IT - tires - traction; agricultural machinery; earthmoving machinery - tires

321. AU - Klein, R.E.; Sehitoglu, H.
TI - Determination of vehicle rolling resistance and aerodynamic drag
OS - Univ of IL at Urbana-Champaign, IL
SO - IEEE Veh Technol Conf, 29th, Conf Rec of Pap, Arlington Heights, IL, Mar 27-30, 1979, Publ by IEEE (Cat n 79CH1378-9VT), New York, NY, 1979. Available from IEEE Serv Cent, Piscataway, NJ, p 296-301
IT - automobiles - friction; aerodynamics; drag

322. AU - Brown, C.; Gusakov, I.
TI - Mathematical technique for predicting equilibrium rolling resistance of tires for short duration tests
OS - Calspan Corp, Adv Technol Cent, Buffalo, NY
SO - SAE Prepr n 790118 for meeting Feb 26-Mar 2, 1979, 8 p
IT - tires - testing

323. AU - Tillinger, D.E.; Weber, J.R.; Strowe, R.H.
TI - Inter-test facility rolling resistance correlation via control tire concept and computer multiple regression modeling
OS - Gen Tire & Rubber Co
SO - SAE Prepr n 790117 for meeting Feb 26-Mar 2, 1979, 6 p
IT - tires - testing; mathematical models

324. AU - Hetherington, J.G.; Littleton, I.
TI - Rolling resistance of towed, rigid wheels in sand
SO - R Mil Coll of Sci, Swindon, England
IT - wheels; soil mechanics; friction; sand and gravel

325. TI - Fighting rolling resistance in tires
SO - Mach Des, v 51, n 1, Jan 11, 1979, p 30-31, 33-34
IT - tires - hysteresis; fuel economy; automobiles - fuel economy

326. AU - Karnopp, D.
TI - Power requirements for traversing uneven roadways
OS - Univ of Calif, Davis, CA
SO - Veh Syst Dyn, v 7, n 3, Sep 1978, p 135-152
IT - vehicles - springs and suspension

327. AU - Garrett, K.
TI - Tyre trends for commercials
SO - Automot Eng (London), v 3, n 5, Oct-Nov 1978, p 57-59
IT - tires; motor trucks - tires

328. AU - Borcherts, R.H.; Stadler, H.L.; Brehob, W.M.; Auiler, J.E.
TI - Improvements in automotive fuel economy
OS - Ford Mot Co, Dearborn, MI
SO - Energy (Oxford) v 3, n 4, Aug 1978, p 439-449
IT - automobiles - fuel economy; aerodynamics - drag; product design - weight control; tires; automobile engines - fuel economy; automotive engineering - United States

329. AU - Clark, S.K.; Schuring, D.J.
TI - Interlaboratory tests for tire rolling resistance
OS - Univ of Mich, Ann Arbor, MI
SO - SAE Prepr n 780636 for meeting Jun 5-9, 1978, 17 p
IT - tires - testing; materials testing apparatus - reviews; statistical methods - applications; mechanical variables measurement - forces

330. AU - Lloyd, S.E.
TI - Development of a flat surface tire rolling resistance facility
SO - SAE Prepr n 780635 for meeting Jun 5-9, 1978, 9 p
IT - tires - testing; materials testing apparatus - design; mechanical variables measurement - forces

331. AU - Lippmann, S.A.; Oblizajek, K.L.; Metters, J.J.
TI - Sources of rolling resistance in radial ply tires
OS - Uniroyal Tire Co, Detroit, MI
SO - SAE Prepr n 780258 for meeting Feb 27-Mar 3, 1978, 13 p
IT - automobiles - tires

332. AU - Smith, J.R.; Tracy J.C.; Potter, D.S.
TI - Tire rolling resistance-speed dependent contribution
SO - SAE Prepr n 780255 for meeting Feb 27-Mar 3, 1978, 8 p
IT - automobiles - tires

333. AU - McGrew, J.F.
TI - Multimode vehicle performance instrument
SO - SAE Prepr n 780149 for meeting Feb 27-Mar 3, 1978, 5 p
IT - automobiles - performance; acceleration - measurements; computers - microprocessor - applications; tachometers - applications; electric inverters - applications

334. AU - Tielking, J.T.; Schapery, R.A.
TI - Energy loss in an analytical membrane tire model
OS - Tex A&M Univ, College Station, TX
SO - Tire Sci Technol, v 5, n 3, Aug 1977, p 136-151
IT - tires

335. AU - Della-Moretts, L.
TI - Elementary transformation of tire - slip and soil shear stress/strain test curves
OS - USDA, For Serv, Equip Dev Cent, Washington, D.C.
SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977 p 155-158
IT - tires - traction; soil mechanics; roads and streets - rural

336. AU - Phelps, R.E.; Mingle, J.G.
TI - Pavement and tire rolling resistance coefficients for vehicle energy prediction
OS - Oreg State Univ, Corvallis, OR
SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977 p 123-132
IT - tires - traction; pavements; motor trucks; energy utilization - mathematical models

337. AU - Vorachek, J.J.; Dill, R.J.; Montag, R.J.
TI - Effect of passenger tire reinforcing materials on rolling resistance

OS - Goodyear Tire & Rubber Co
SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977 p 169-178
IT - tires - testing; energy utilization; materials

338. AU - Bekker, M.G.; Semonin, E.V.
TI - Note on tire rolling resistance due to test wheel curvature
SO - Tire Sci Technol, v 5, n 2, May 1977, p 119-122
IT - tires - testing

339. AU - Trivisonno, N.M.
TI - Applications of tire thermography to rolling resistance
OS - B.F. Goodrich Co
SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 103-109
IT - tires - thermal effects; thermography; mathematical techniques - finite difference method

340. AU - Stiebel, A.
TI - What's needed to improve steady state test methods
OS - Uniroyal Tire Co, Detroit, MI
SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 39-48
IT - tires - testing; energy utilization - measurements

341. AU - Korst, H.H.; Funfsinn, M.A.
TI - Determination of effective rolling resistance by coastdown experiments on smooth and rough roads
OS - Univ of Ill, at Urbana-Champaign, IL
SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 133-141
IT - tires - testing; roads and streets - roughness measurement

342. AU - Hunt, J.D.; Walter, J.D.; Hall, G.L.
TI - Effect of tread polymer variations on radial tire rolling resistance
OS - Firestone Tire & Rubber Co, Cent Res Lab, Akron, OH
SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 161-168
IT - tires - testing; energy utilization; plastics

343. AU - Thompson, G.D.; Torres, M.
TI - Variations in tire rolling resistance a real world information need
OS - U.S. EPA, Washington, D.C.

SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 49-63
IT - tires; automobiles - fuel economy

344. AU - Prevorsek, D.C.; Kwon, Y.D.; Sharma, R.K.
TI - Tire rolling resistance via viscoelastic analysis of the components
OS - Chem Res Cent, Allied Chem Corp
SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20 1977. Publ by SAE (P-74), Troy, MI, 1977, p 75-86
IT - tires; viscoelasticity - analysis; heat transfer

345. AU - DeRaad, L.W.
TI - Influence of road surface texture on tire rolling resistance
OS - GM Corp, Warren, MI
SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 143-149
IT - tires; roads and streets - roughness measurement

346. AU - Padovan, J.
TI - Numerical simulation of rolling tires
OS - Univ of Akron, OH
SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 87-94
IT - tires - mathematical models; energy utilization; mathematical techniques - finite element method

347. AU - Klamp, W.K.
TI - Power consumption of tires related to how they are used
OS - McCreary Tire & Rubber Co
SO - Tire Rolling Losses and Fuel Econ: An R and D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 5-11
IT - tires; automobiles - energy utilization

348. AU - Campbell, K.L.
TI - Comparison of radial and non-radial tire construction with respect to rolling resistance and vehicle fuel economy
OS - Firestone Tire & Rubber Co, Akron, OH
SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, p 13-19
IT - tires, automobiles - fuel economy; motor trucks - fuel economy

349. AU - Vodyanik, I.I.
TI - Rolling resistance of wheel with pneumatic tires
OTI - Soprotivlenie Sacheniyu Koles S Pnevmaticheskimi Shinami.

SO - Izv Vyssh Uchebn Zaved Mashinostr, n 10, 1977, p 115-118
IT - tires; rheology

350. TI - Tire rolling losses and fuel economy
OS - SAE, Highw Tire Comm, Troy, MI
SO - Tire Rolling Losses and Fuel Econ: R & D Planning Workshop, Pap and Discuss, Transp Syst Cent, Cambridge, MA, Oct 18-20, 1977. Publ by SAE (P-74), Troy, MI, 1977, 202 p
IT - tires; energy utilization; automobiles - fuel economy; viscoelasticity - analysis; motor trucks - fuel economy; roads and streets- roughness measurement

351. AU - Viergutz, O.J.; Wakeley, H.G.; Dowers, L.
TI - Automobile in-use tire inflation survey
OS - Ill Inst of Technol, Chicago, SAE Prepr n 780256 for meeting Feb 27-Mar 3, 1978, 8 p
IT - automobiles, tires, wear, fuel economy

352. AU - Luchter, S.; Daye, C.J.
TI - Comparing alternative methods of improving fuel economy
OS - DOT, Washington, D.C.
SO - Proc Intersoc Energy Convers Eng Conf 12th, Washington, D.C., Aug 28-Sep 2 1977. Publ by ANS (IEEE Cat n 77CH12633 ENERGY), La Grange Park, IL, 1977 v 1, Pap 779001, p 2-9
IT - automobiles, fuel economy

353. AU - Carson, R.W.
TI - Traction drives update
SO - Power Transm Des, v 19, n 11 Nov 1977 p 37-42
IT - mechanical drive, power transmission, variable speed

354. AU - Callahan, J.M.
TI - Tires roll up the fuel savings
SO - Automot Ind, v 156, n 8, May 15 1977 p 27-31
IT - tires, research, automobiles, fuel economy

355. AU - Schuring, D.J.
TI - Energy loss of tires on twin rolls, drum, and flat roadway - a uniform approach
OS - Firestone Tire & Rubber Co, Akron, OH
SO - SAE Prepr n 770875 for meeting Sep 26-30 1977 9 p
IT - tires

356. AU - Gusakov, I.
TI - Measuring skid resistance of passenger car tires on an indoor facility
OS - Calspan Corp
SO - Transp Res Board Transp Res Rec n 621 1976 p 55-66
IT - automobiles, skidding, roads and streets, skid resistance, tires

357. AU - Shupe, D.S.
TI - Overview - energy and the automobile
OS - Univ of Cincinnati, Ohio
SO - ASME Pap n 77-RC-5 for meeting, May 16-18 1977 11 p
IT - automobiles, fuel economy, automobile engines, exhaust gases, air pollution

358. AU - Gusakov, I.; Schuring, D.J.
TI - Power loss of truck tires under equilibrium and transient conditions
OS - Calspan Corp
SO - Proc from the SAE Highw Tire Noise Symp, San Francisco, CA, Nov 10-12 1976 Publ by SAE (p-70), Warrendale, PA, 1977 Pap 762030 p 227-239
IT - motor trucks, tires, noise, noise abatement, acoustic variables measurement

359. AU - Dwyer, M.J.; McAllister, M.; Evernden, D.W.
TI - Comparison of the tractive performance of a tractor driving wheel during its first and second passes in the same track
OS - Natl Inst of Agric Eng, Silsoe, Bedford, England
SO - J Terramech, v 14, n 1, Mar 1977, p 1-10

360. AU - Shepherd, P.D.
TI - Effect of a tire's reinforcing material on rolling resistance
OS - Goodyear Tire & Rubber Co
SO - SAE Prepr n 770333 for meeting, Feb 28-Mar 4 1977 14 p
IT - automobiles, tires, tires, traction, fuel economy

361. AU - Gardner, E.R.
TI - Tires: construction and design, properties, performance, testing
OS - Avon Process Polymers Ltd, Melksham, Wiltshire, England
SO - Prog Rubber Technol, v 39, 1976, p 73-91
IT - tires, physical properties, product design, rubber testing, wear of materials, legislation

362. AU - Liles, A.W.; Fetterman, G.P., Jr.
TI - Selection of driving cycles for electric vehicles of the 1990's
OS - Exxon Enterp Inc, Florham Park, NJ
SO - Intersoc Energy Convers Eng Conf, 11th, Proc, State Line, Nev, Sep 12-17 1976 Publ by AICHE, New York, NY, 1976, v 1, SAE Pap 769066, p 390-395
IT - storage battery vehicles, calculations

363. AU - Walston, W.H., Jr.; Buckley, F.T., Jr.; Marks, C.H.
TI - Test procedures for the evaluation of aerodynamic drag on full-scale vehicles in windy environments
OS - Univ of MD, College Park
SO - SAE Prepr n 760106 for meeting Feb 23-27 1976, 9 p
IT - motor trucks, design, aerodynamics, drag, trailers, design

364. AU - Dayman, B., Jr.
TI - Tire rolling resistance measurements from coast-down tests
OS - Jet Propul Lab
SO - SAE Prepr n 760153 for meeting, Feb 23-27 1976, 11 p
IT - automobiles, tires, testing

365. AU - Schuring, D.J.
TI - Energy loss of pneumatic tires under freely rolling, braking, and driving conditions
OS - Calspan Corp, Buffalo, NY
SO - Tire Sci Technol v 4 n 1 Feb 1976 p 3-15
IT - tires

366. AU - Rogers, T.H.; Finelli, A.F.; Pearson, C.J.; Chung, D.A.
TI - Flex requirement of cast urethane elastomers for solid industrial tires
OS - Goodyear Tire & Rubber Co, Akron, OH
SO - J Elastomers Plast v 8 n 1 Jan 1976 p 116-131
IT - polyurethanes, casting, tires, manufacture, rubber, synthetic, elasticity, materials testing

367. AU - Costin, F.
TI - Aerodynamics of the modern car
OS - Automot Eng (London), v 1, n 1, Oct 1975, p 29-32
IT - automobiles, performance, aerodynamics, drag

368. AU - Maryniak, J.
TI - Zagadnienia aerodynamiki pojazdow samochodowych. Some aerodynamic problems of motor cars
SO - Arch Budowy Masz, v 22, n 3, 1975, p 271-288
IT - automobiles, design

369. AU - Johnson, L.
TI - Mobility equations for pneumatic tire performance in soft clay soils
OS - Cent Int de Agric Trop, Cali, Colombia
SO - ASAE Pap, 68th annual meeting, Univ of California, Davis, Jun 22-25, 1975 Pap 75-1013, 24 p. Publ by ASAE, St. Joseph, MI, 1975
IT - tires, traction, soils, trafficability, statistical methods, mechanical variables measurement, torques

370. AU - Kirkwood, T.F.; Lee, A.D.
TI - Generalized model for comparing automobile design approaches to improved fuel economy
OS - RAND, Santa Monica, CA
SO - Rand Corp Rep R-1562-NSF, Jan 1975, 139 p
IT - automobiles, fuel economy, mathematical models

371. AU - Sainsbury, J.H.
TI - Tyre testing
OS - Firestone Europe

SO - Inst of the Rubber Ind Annu Natl Conf: Tyres, 1st, Tech Sess, Pap, Stratford-upon-Avon, England, Nov 7-9 1973 p 4b1-4b15. Sponsored by IRI, London, England, 1973
IT - tires, physical properties, materials testing

372. AU - Crum, W.B.
TI - Road and dynamometer tire power dissipation
OS - Ford Mot Co
SO - SAE Prepr n 750955 for meeting Oct 13-17 1975, 12 p
IT - automobiles, tires, fuel economy, dynamometers

373. AU - Bekker, M.G.; Semonin, E.V.
TI - Motion resistance of pneumatic tyres
SO - J Automot Eng v 6 n 2 Apr 1975 p 6-10
IT - tires, mathematical models

374. AU - Crum, W.B.; McNall, R.G.
TI - Effects of tire rolling resistance on vehicle fuel consumption
OS - Ford Mot Co, Dearborn, MI
SO - Tire Sci Technol v 3 n 1 Feb 1975 p 3-15
IT - tires, testing, vehicles, fuel economy

375. AU - Glemming, D.A.; Bowers, P.A.
TI - Tire testing for rolling resistance and fuel economy
OS - Goodyear Tire & Rubber Co, Akron, OH
SO - SAE Prepr n 750457 for meeting Feb 24-28 1975, 17 p
IT - automobiles, fuel economy, tires, testing

376. AU - Molinier, R.; Seraphin, L.; Tricot, R.; Castro, R.
TI - Recent developments and criteria for application of titanium alloys for the aircraft industry
OTI - Developements recents et criteres d'Emploi des alliages de titane pour l'Industrie aeronautique
SO - Rev Metall (Paris), v 71, n 1, Jan 1974, p 1-17
IT - titanium and alloys, structural, aircraft materials

377. AU - Hirst, E.
TI - Automobile fuel use and conservation
OS - Oak Ridge Natl Lab, TN
SO - J Environ Sys, v 4, n 2, Summer 1974, p 85-95
IT - fuel economy, automotive fuels

378. AU - Walter, J.D.; Conant, F.S.
TI - Energy losses in tires
OS - Firestone Tire & Rubber Co, Akron, OH
SO - Tire Sci Technol, v 2, n 4, Nov 1974, p 235-260
IT - tires, fuel economy

379. AU - Marx, J.
TI - Dissipation of heat of synthetic rolling emulsions
OTI - Zur waermeabfuhr synthetischer walzemulsionen

SO - Arch Eisenhuettenwes, v 45, n 9, Sep 1974, p 609-610
IT - rolling mill practice, lubrication

380. AU - Khromov, M.K.; Kostin, V.V.
TI - Assessment of the dynamic and road-holding properties of tyres on a test drum
OS - Tyre Res Inst, USSR
SO - Sov Rubber Technol, v 31, n 9, Sep 1972, p 26-28
IT - tires, testing, materials testing apparatus mathematical techniques

381. AU - Thomas, P.R.; Till, R.H.
TI - Simplified method for the measurement of vehicular rolling resistance
SO - SAE Prepr n 740423 for meeting Apr 23-24 1974, 9 p
IT - vehicles, off road operation, motor trucks off highway, mechanical variables measurement, acceleration, soils, trafficability

382. AU - Gokmen, A.G.; Powell, D.G.
TI - Analysis of viscous aquaplaning of a pneumatic tyre
OS - Queen Mary Coll, London, England
SO - Can Congr of Appl Mech, 4th, Proc, Pap, Ec Polytech, Montreal, Quebec, May 28-Jun 1 1973 p 871-872
IT - tires, skid resistance, roads and streets, skid resistance

383. AU - White, R.A.; Korst, H.H.
TI - Generalized method for determining drag coefficient or rolling resistance from coast down tests
OS - Univ of IL at Urbana-Champaign
SO - Adv in Road Veh Aerodyn, 1973, Pap 2, p 15-23. Publ by BHRA Fluid Eng, Cranfield, Bedford, England, 1973
IT - automobiles, stability, aerodynamics, stability

384. AU - Oblizajek, K.L.; Lippmann, S.A.
TI - Predicting the tread wear of nondriven front axle tires from laboratory measurements
OS - Uniroyal, Inc, Wayne, NJ
SO - SAE Prepr n 740073 for meeting Feb 25-Mar 1 1974, 8 p
IT - tires, wear, materials testing

385. AU - Pope, R.G.
TI - Effect of wheel speed on rolling resistance
OS - Royal Military Coll of Science, Shrivenham, Swindon, Wilts, England
SO - J Terramech, v 8, n 1, 1971, p 51-8
IT - wheels, soils, trafficability

386. AU - Floyd, C.W.
TI - Power loss testing of passenger tires

SO - SAE Pap 710576 for meeting June 7-11 1971, 6 p
IT - rubber tires, testing

387. AU - White, R.A.; Korst, H.H.
TI - Determination of vehicle drag contributions from coast-down tests
SO - SAE Pap 720099 for meeting Jan 10-14 1972, 6 p
IT - automobiles, wind pressure

388. AU - Kondo, M.; Nagaishi, T.; Seki, K.; Takeda, T.
TI - Dynamical behaviors of a car when one tyre is punctured simulatively
OS - Tokyo Inst of Technol, Japan
SO - Bull JSAE, n 1, 1969, p 52-69
IT - automobiles, stability, rubber tires

389. AU - Elliott, D.R.; Klamp, W.K.; Kraemer, W.E.
TI - Passenger tire power consumption
SO - SAE Pap 710575 for meeting June 7-11 1971, 14 p
IT - rubber tires

390. AU - Arango, I.; Moriwaki, Y.; Brown, F.
TI - In-situ and laboratory shear velocity and modulus
OS - Woodward-Clyde Consult, San Francisco, CA
SO - Proc of the ASCE Geotech Eng Div Spec Conf: Earthquake Eng and Soil Dyn, Pasadena, CA, Jun 19-21 1978 Publ by ASCE, New York, NY, 1978 v 1 p 198-212

391. AU - Mitchell, J.K.
TI - In-situ techniques for site characterization
OS - Univ of CA, Berkeley
SO - Site Charact & Explor, Proc Spec Workshop, Northwest Univ, Evanston, IL, Jun 12-14 1978 Publ by ASCE, New York, NY, 1979 p 107-129
IT - soils, testing, instruments

392. AU - Black, W.P.M.
TI - Strength of clay subgrades: its measurement by a penetrometer
SO - TRRL Lab Rep n 901, 1979, 12 p
IT - roads and streets, foundations, pavements, mathematical models, clay, soils, testing

393. AU - Rawat, P.C.; Ramamurthy, T.
TI - Shear behavior of sand under generalized conditions of stress and strain
OS - Eng India Ltd, New Dehli
SO - Indian Geotech J, v 8, n 4, Oct 1978, p 235-269
IT - sand and gravel, stresses, soil mechanics, geophysics, rock properties, mathematical models, stresses, analysis, materials testing apparatus

394. AU - Woods, R.D.
TI - Measurement of dynamic soil properties
OS - Univ of MI, Ann Arbor
SO - Proc of the ASCE Geotech Eng Div Spec Conf: Earthquake Eng and Soil Dyn, Pasadena, CA, Jun 19-21 1978 Publ by ASCE, New York, NY, 1978, v 1, p 91-178
IT - soils, dynamics, measurements, soil dynamics

395. AU - Lade, P.V.
TI - Cubical triaxial apparatus for soil testing
OS - Univ of CA, Sch of Eng & Appl Sci, Los Angeles
SO - Geotech Test J, v 1, n 2, Jun 1978, p 93-101
IT - materials testing apparatus, soil mechanics, shear strength, rock mechanics, soils

396. AU - Smith, L.A.; Dumas, W.T.
TI - Recording soil penetrometer
OS - USDA, Agric Res Serv, Auburn, AL
SO - Pap ASAE for annual meeting, Chicago, IL, Dec 15-18, 1975, Pap 75-1519, 14
IT - soils, density measurement, potentiometers, transducers

397. TI - Proceedings of the conference on in-situ measurement of soil properties. Specialty conference of the ASCE Geotechnical Engineering Division, Volume 1 and 2, 1975
SO - Proc of the Conf on In-Situ Meas of Soil Prop, Spec Conf - of the ASCE Geotech Eng Div, NC State Univ, Raleigh, Jun 1-4 1975 Publ by ASCE, New York, NY, 1975-1976 2 vol, 947 p
IT - soils, surveys, soil mechanics, measurements, clay, sand and gravel, instruments

398. AU - Brand, E.W.
TI - Back pressure effects on the undrained strength characteristics of soft clay
OS - Asian Inst of Technol, Bangkok, Thailand
SO - Soils Found, v 15, n 2, Jun 1975, p 1-16
IT - soils, consolidation, clay; soil mechanics

399. AU - Bernhardt, K.
TI - Method of determining the shear strength of soils with special regard to agricultural soil cultivation
OTI - Eine methode zur bestimmung der scherfestigkeit des bodens aus der sicht der landwirtschaftlichen bodenbearbeitung.
SO - Wiss Z Tech U, Dresden, v. 23, n. 2, 1974, p 395-399
IT - soil mechanics, measurement, agricultural machinery, design, agricultural engineering, desing aids

400. AU - Schoenwald, E.; Frenzel, A.
TI - Procedures and laboratory technique methods of cohesive soils, tensile strength determination
OTI - Verfahren und labortechnische methoden zur ermittlung der zugfestigkeit von bindigen erdstoffen.

OS - Bergakad Freiberg, E Ger
SO - Neue Bergbautech, v 5, n 6, Jun 1975, p 428-433
IT - soils, measurement, measurements, soil mechanics, clay, strength of materials

401. AU - Allard, P.; Grenet, C.
SO - Lab Cent Ponts, Chaussees, Bull Liaison Lab Ponts Chauesses n 60, Jul-Aug 1972, p 125-136
IT - geophysics, seismic, soil mechanics, civil, soils, boring

402. TI - Magic carpet evaluation study
OS - Municipality of metropolitan Seattle, Wash. Urban Mass Transportation Administration, Washington, D.C.
SO - May 77, 110p, PB271214

403. AU - Christensen, D.E.; Ewing, S.S.; Davis, C.F.; Goodson, F.D.; Strickland, R.I.
TI - Studies performed to determine suspension needs for lance limited mobility launcher
OS - Army Missile Command Redstone Arsenal Ala Launch and Handling Equipment Design Branch
SO - 5 Apr 63, 62p, AD475804

404. AU - Bishop, A.W.; Green, G.E.; Garga, V.K.; Andresen, A.; Brown, J.D.
TI - New ring shear apparatus and its application to the measurement of residual strength
OS - Imperial Coll, London, England
SO - Norg Geotek Inst, Publ n 93, 1972, 56 p
IT - soil mechanics, soils, testing

405. AU - Collard, M.
TI - Reduction of the results of field-strength measurements to standardised conditions, for the purpose of studying LF and MF ionospheric propagation
OS - Univ of Brussels, Belg
SO - EBU Rev Tech, v 141, Oct 1973, p 229-241
IT - electromagnetic waves, propagation in Ionosphere, electric field measurement, electric measurements

406. AU - Holubec, I.; D'Appolonia, E.
TI - Effect of particle shape on the engineering properties of granular soils
OS - E. D'Appolonia Consult Eng, Inc, Pittsburgh, PA
SO - ASTM Spec Tech Publ 523, 1973, for meeting, Los Angeles, CA, Jun 25-30 1972 p 304-318
IT - sand and gravel, density measurements

407. AU - Krinitzsky, E.L.
TI - X-Ray measurement of soil densities in models

OS - U.S. Army Engineers, Waterways Experiment Station, Vicksburg, MS
SO - J Mater, v 7, n 2, Jun 1972, p 119-130
IT - soil mechanics, materials testing, nondestructive testing

408. AU - Richards, A.F.; McDonald, V.J.; Olson, R.E.; Keller, G.H.
TI - In-place measurement of deep sea soil shear strength
OS - Lehigh Univ, Bethlehem, PA
SO - ASTM Spec Tech Publ 501, 1972, p 55-68
IT - undersea technology, soil mechanics

409. AU - Parry, R.H.G.; Bishop, A.W.; Marsland, A.; Billam, J.; Foster, R.H.; Sides, G.R.; Rowe, P.W.; Barden, L.; Bennett, D.H.; Dyson, S.; Thornton, C.; Harkness, R.M.; Butterfield, R.; Chaplin, T.K.; Simons, N.E.; Green, G.E.
TI - Stress-strain behaviour of soils
SO - Stress-Strain Behaviour of Soils, Proceedings of the Roscoe Memorial Symposium, Cambridge Univ, England, Mar 29-31 1971 G.T. Foulis & Co, Ltd, Oxfordshire, England, 1972, 761 p
IT - soil mechanics, clay, sand

410. AU - Ehrgott, J.Q.
TI - Development of a dynamic high pressure triaxial test device
OS - Waterways Experiment Station, Vicksburg, MS
SO - Soc Mining Eng, AIME, Proc 12th Symp on Rock Mechanics, Nov 16-18 1970, Rolla, MO, 1971, p 195-219
IT - rock mechanics, strength of materials, soil mechanics

411. AU - Barata, F.E.
TI - Effect of heating on bearing capacity of highway subgrades
OS - Federal Univ of Rio de Janeiro, Brazil
SO - Nat Acad Sciences-Nat Research Council-Highway Research Board-Special Report 103, 1969, p 141-149
IT - roads and streets, embankments, soil mechaincs, soils, compaction, soils, temperature measurement

412. AU - Mitchell, J.K.
TI - Temperature effects on engineering properties and behavior of soils
OS - Univ of CA, Berkeley
SO - Nat Acad Sciences-Nat Research Council-Highway Research Board-Special Report 103, 1969, p 9-28
IT - soils, surveys, roads and streets, stabilization, soil mechanics, soils, frost effect, soils, temperature measurement

413. AU - Sherif, M.A.; Burrous, C.M.
TI - Temperature effects on unconfined shear strength of saturated, cohesive soil
SO - Nat Acad Sciences-Nat Research Council-Highway Research Board-Special Report 103, 1969, p 267-272
IT - soils, temperature measurement, clay, soil mechanics, soils, moisture

414. TI - Effects of temperature and heat on engineering behavior of soils. Proc of International Conference, Washington, D.C., Jan 16 1969
SO - Nat Acad Sciences, Washington, D.C., Highway Research Board Special Report 103, 1969, 300 p
IT - soil mechanics, roads and streets, stabilization, rock mechanics, soils, consolidation

415. AU - Forsyth, R.W.; Forsyth, J.P.
TI - Helicopter ground mobility system (HGMS) concept formulation and selection
OS - Vehicle Systems Development Corp, Upland, CA
SO - Final technical rept., Jun 77, ADA047507, 96 p

416. AU - Green, C.E.
TI - Event dice throw, mobility experiments
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Final rept., WES-MP-M-77-12; ADA046146

417. TI - U.S. Army test and evaluation command development test II (EP) - common test operations research procedures "logistics-over-the-shore"
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 2 Mar 76, 32 p, ADA042716

418. TI - Road tests of mobile weapons
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on test operations procedure, 1977, ADA043540

419. AU - Stoll, J.K.; Randolph, D.D.; Rula, A.A.
TI - Relative off-road mobility performance of six wheeled and four tracked vehicles in selected terrain
OS - Army Waterways Experiment Stations, Vicksburg, MS
SO - Final rept., WES-TR-M-70-4, ADA040175, 1970

420. AU - Difiglio, C.; Kulash, D.
TI - Marketing and mobility. Report of a panel of the interagency task force on motor vehicle goals beyond 1980
OS - Faucett (Jack) Associates, Inc., Chevy Chase, MD. Federal Energy Administration, Washington, D.C. Office of Industrial Programs
SO - Interim rept., PB269106, 1976, 240 p

421. AU - Karafiath, L.L.
TI - Development of a mathematical model for the prediction of the off-road performance of 4x4 vehicles
OS - Grumman Aerospace Corp, Bethpage, NY, Research Dept
SO - Final rept., 1977, ADA039974, 50 p

422. AU - Woods, H.K.; Shamburger, J.H.
TI - Quantitative description of selected West German terrain for ground mobility

OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Final rept., Jan-Nov 68, WES-TR-M-70-6, ADA040174, 1970, 281 p

423. TI - Report of meeting of ARPA advisory committee on mobility environmental research study (2ND) (24-26 February 1964, Vicksburg, Mississippi)
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-670, 1964, AD478994, 203 p

424. AU - Alfriend, T.B.
TI - Development of MHU-110/M munitions trailer
OS - Aai Corp, Baltimore, MD
SO - AD862497, 1968

425. AU - Krenkel, P.A.; Hoadley, P.G.; Carpenter, J.A.
TI - The description and classification of hydrologic characteristics for military purposes
OS - Vanderbilt Univ, Nashville, TN, Dept of Civil Engineering
SO - Contract rept., AEWES-CR-3-23, 1964, AD489876

426. AU - Liston, R.A.; Czako, T.; Haley, P.; Harrison, W.L. Jr.; Hanamoto, B.
TI - Mobility environmental research study mobility testing procedures
OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab
SO - Feb 66, 88 p, WES-CR-3-153, AD800462

427. TI - Service test of load carrying device
OS - Army Infantry Board, Fort Benning, GA
SO - Final rept., 1965, AD479906, 85 p

428. TI - Mobility environmental research study. A quantitative method for describing terrain for ground mobility. Volume VIII. Terrain factor-family maps of selected areas
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-726-Vol-8, AD487500, 1966, 938 p

429. AU - Hanamoto, B.; Liston, R.A.; Parker, C.B.
TI - Terrain criteria in vehicle design
OS - Army Tank-Automotive Center, Warren, MI
SO - Jun 63, 48 p, AD488300

430. AU - Nuttall, C.J., Jr.; Wilson, C.W.; Werner, R.A.
TI - One-pass performance of vehicles on fine-grained soils
OS - Wilson Nuttall Raimond Engineers, Inc, Chestertown, MD
SO - Jul 66, 134 p, AD487446, WES-CR-3-152

431. AU - Neese, M.P.
TI - Service test (retest) of universal engineer tractor-crawler
OS - Army Armor and Engineer Board, Fort Knox, KY
SO - Final rept., 1 Nov 65-1 Apr 66, AD487400, 92 p

432. AU - Bogdanoff, J.L.; Kozin, F.; Cote, L.J.
TI - Atlas of off-road ground roughness P.S.D.'S and report on data acquistion technique
OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab
SO - Technical rept., 1966, AD802503

433. TI - A computer analysis of vehicle dynamics while traversing hard surface terrain profiles
OS - FMC Corp, San Jose, CA, Ordnance Engineering Div
SO - Feb 66, 199p, WES-CR-3-155, AD803194

434. AU - Garrett, E.E.
TI - Comparison of ground mobility characteristics of land-marine interfaces of Florida and Thailand
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-829, AD800075, 1966, 79 p

435. TI - US Army test and evaluation command test operations procedure steering
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 9 Jan 76, ADA036033

436. AU - Rush, E.S.
TI - Effects of soil surface conditions on drawbar pull of a wheeled vehicle
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-M-70-10, ADA-32961, 1970, 25 p

437. AU - Meyer, M.P.
TI - Trafficability classification of Thailand soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-753, AD808540, 1967, 149 p

438. TI - Lessons from the Indo-China War. Vol. II
OS - Battelle Memorial Inst, Columbus, Ohio, Remote Area Conflict Information Center
SO - 31 May 1955, 366 p, AD805376

439. TI - Evaluation of GOER vehicles in Vietnam (Acl-90/67)
OS - Army Concept Team in Vietnam, San Francisco, CA 96243
SO - 26 Jan 1967, 12 p

440. AU - Benn, B.O.; Keown, M.
TI - An analytical model for predicting cross-country vehicle performance appendix A: instrumentation of test vehicles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-783-App-A, 1967, AD817532, 49 p

441. TI - Engineering design handbook. Automotive series. Automotive suspensions
OS - Army Materiel Command, Washington, D.C.
SO - Apr 67, 456 p, AD817023

442. AU - Green, A.J.
TI - Performance of soils under tire loads. Report 5. Development and evaluation of mobility numbers for coarse-grained soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-666-5, 1967, 93 p

443. AU - Rush, E.S.; Temple, R.G.
TI - Trafficability tests in fine-grained soils with two vehicles with 9- to 10-ton wheel loads
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-879, AD811217, 1967

444. AU - Dornbusch, W.K., Jr.
TI - Mobility environmental research study, a quantitative method for describing terrain for ground mobility. Volume III. Surface geometry
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-726-Vol-3, AD820788, 1967, 202 p

445. AU - Randolph, D.D.; Robinson, J.H.
TI - Mobility performance of towed and self-propelled artillery and related vehicles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-M-77-1, ADA036 188/1ST, Jan 1977, 283 p

446. AU - Garrett, E.E.; Shamburger, J.H.
TI - Mobility environmental research study, a quantatitive method for describing terrain for ground mobility. Volume V. Hydrologic geometry
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-726-Vol. 5, AD827290/8ST, Nov 1967, 106 p

447. AU - Webb, W.A.; Doyle, R.W.
TI - Development of bomb lift truck, A/S32K-4
OS - Aai Corp, Cockeysville, MD
SO - Jun 74 67 p, AD922987/3ST

448. AU - McDaniel, A.R.
TI - Trafficability predictions in tropical soils. Report 4. Columbia study (July 1962-July 1963)
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-355, AD824 734/8ST, Nov 1967, 77 p

449. AU - Spanski, P.L.
TI - Design and fabrication mobility exercise 'A' test rigs
OS - Army Tank-Automotive Command, Warren, MI, Land Locomotion Div
SO - Dec 67 50 p, AD839671/5ST

450. AU - Willoughby, W.E.
TI - A limited study of the performance of an interim 3/4-ton wheel/track convertible test rig, Houghton, MI, and Vicksburg, MS
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-M-74-1, ADA032972/2ST, April 1974, 104 p

451. AU - Gray, G.W.
TI - Mhu-12/M trailer special weapon tiedown and mobility tests
OS - Air Force Special Weapons Center, Kirtland AFB, New Mexico
SO - AFSWC-TR-68-8, AD840057/4ST, Aug 1968, 33 p

452. AU - Green, A.J.; Melzer, K.J.
TI - The performance of two boeing-GM wheels (GM VII and GM VIII) for the manned lunar rover vehicle
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-M-71-3, ADA032963/1ST, Feb 1971, 56 p

453. AU - Parks, J.A.; Stoll, J.K.
TI - Automation of cross-country locomotion model
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-M-71-7, ADA032964/9ST, Nov 1971, 101 p

454. AU - Wiendieck, K.W.
TI - Tests with an experimental wheel on clay
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-M-70-8, ADA032904/5ST, Dec 1970, 23 p

455. AU - Carlson, E.C.
TI - Clark ranger forklift (CRF)
OS - Army Concept Team in Vietnam, San Francisco, CA 96384
SO - Sep 68 40 p, AD842846/8ST

456. AU - Green, A.J.; Knight, S.J.
TI - Effect of mold size and other factors on laboratory cone index measurements
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-327, AD841347/8ST, 28 Jan 1959, 36 p

457. AU - Stuller, J.G.; Skea, R.G.
TI - Initial production test of modified crane, wheel-mounted, 5-ton, DED, 4x4, rough terrain, H446
OS - Materiel Test Directorate, Aberdeen Proving Ground, MD
SO - Jan 69, 62 p, AD849379

458. AU - Burgmann, R.A.; Ingebretson, C.O.
TI - Initial production test of marginal terrain assault bridge with M113A1 launcher
OS - Army Armor and Engineer Board, Fort Knox, KY
SO - 6 May 69, 107 p, AD854618

459. AU - Randolph, D.D.
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-TR-M-70-7, ADA032765, 1970, 83 p

460. AU - Murphy, N.R., Jr.; Rula, A.A.
TI - Mobility exercise A (MEXA) field test program. Report 4. Performance of selected MEXA and military vehicles in vertical obstacles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-TR-M-70-11-4, ADA032769, 1974, 68 p

461. AU - Clark, S.J.
TI - Instrumentation for vehicle mobility testing in a tropical environment
OS - Colorado State Univ, Fort Collins
SO - WES-CR-3-154, ADA032585

462. AU - Stinson, B.G.
TI - Evaluation of WES analytical model in selected terrains (XM5591E1 GOER tests at Camp Gagetown, New Brunswick, Canada)
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-TR-M-70-3, 1970, 70 p

463. AU - Cohron, G.T.; Werner, R.A.
TI - An exploratory study of the effects of terrain surface obstacles on vehicle performance
OS - Wilson Nuttall Raimond Engineers, Inc, Chestertown, MD
SO - WES-CR-113-2, ADA032584, 1965, 252 p

464. AU - Robinson, J.H.; Rush, E.S.
TI - Trafficability tests with major/minor wheel vehicle equipped with 16x14.5-6 tires
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-M-68-4, AD841855, 1968

465. AU - Green, A.J., Jr.
TI - Pilot study to evaluate the squeeze test for use in vehicle-mobility research
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-350, AD841348, 1959

466. AU - Green, J.E.; Knight, S.J.
TI - Preliminary study of stresses under off-road vehicles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-362, 1959, AD841349

467. AU - Knight, S.J.
TI - Vehicle mobility
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-241, AD841346, 1957, 17 p

468. AU - Foster, C.R.; Knight, S.J.
TI - Vehicle mobility on soft soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-147, AD841344, 1956

469. AU - Thompson, A.B.
TI - A pilot study of WES earth pressure cell action in comparatively soft soil
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-230-1, AD841345, 1957

470. AU - Stuller, J.; Sinigaglio, B.F.
TI - Initial production test of crane-shovel, crawler mounted: DED, 12-1/2-ton, model L-36M, USA Reg. No. 08C81367
OS - Materiel Test Directorate, Aberdeen Proving Ground, MD
SO - Jan 69, 108 p, AD849316

471. AU - Blackmon, C.A.; Stoll, J.K.
TI - An analytical model for predicting cross-country vehicle performance. Appendix B. Vehicle performance in lateral and longitudinal obstacles (vegetation). Volume 1. Lateral obstacles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-783-1, AD846257, 1968

472. TI - Trip report - SK-5 air cushion vehicle
OS - Army Combat Developments Command, San Francisco, CA Liaison detachment
SO - AD849055/9ST

473. AU - Dais, J.L.
TI - Analysis of soil identation by a translating grouser plate
OS - Army Tank-Automotive Command, Warren, MI, Land Locomotion Div
SO - AD845204/7ST

474. TI - Executive dummary of the transportation-75 derivative study
OS - Army Combat Developments Command Transportation, Fort Eustis, VA
SO - Jun 69, 33 p, AD854990

475. AU - Durso, J.P., Jr.; Wayne, R.A.
TI - Product improvement test of T132E1 snow pads for M578 recovery vehicle under arctic winter conditions
OS - Army Arctic Test Center, Fort Greely, Alaska
SO - Apr 69, 67 p, AD855243

476. TI - Trip report XM-571 articulated cargo carrier evaluation
OS - Army Combat Development Command, San Francisco, CA, Liaison detachment
SO - 12 May 69, 8 p, AD853752

477. AU - Meizer, K.J.; Swanson, G.D.
TI - Performance evaluation of a second-generation elastic loop mobility system
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-TR-M-74-7, 1974, ADA031772

478. TI - Trip report articulated utility carrier - XM-571 (ENSURE 146)
OS - Army Combat Developments Command, San Francisco, Ca, Liaison Detachment
SO - 11 May 69, 11 p, AD853751

479. TI - Gradeability and side-slope performance
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 21 Oct 76, 9 p, ADA031702

480. AU - Meyer, M.P.
TI - A bibliography with abstracts of U.S. Army Waterways Experiment Station publications related to vehicle mobility
OS - Army Waterways Experiment Station, Vicksburg, MS Pavements/Soil Trafficability Info Anal Ctr
SO - PSTIAC-3, 1976, ADA031524

481. AU - Rishel, E.B., III
TI - Marginal terrain assault bridge-launcher M113A1 armored personnel carrier
OS - Army Concept Team in Vietnam, APO, San Francisco 96384
SO - Nov 69, 36 p, AD863262

482. AU - Schreiner, B.G.; Smith, R.P,; Green, C.E.
TI - Performance of riverine utility craft (RUC) in riverine environments
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-70-5, AD869011, 1970, 100 p

483. AU - Smith, R.P.; Robinson, J.H.
TI - Limited trafficability tests with major/minor wheel vehicle equipped with 20x14-10 tires
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-Misc-Paper-M-69-4, AD859719, 1969, 23 p

484. AU - Klimek, A.
TI - Military potential test of canadair fisher vehicle
OS - Army General Equipment Test Activity, Fort Lee, VA
SO - AD857747, 1967, 138 p

485. TI - Ground effect vehicles in overland operations land combat system-90
OS - Army Advanced Materiel Concepts Agency, Alexandria, VA
SO - AD868089, 1970

486. AU - Blackmon, C.A.; Stinson, B.G.; Stoll, J.K.
TI - An analytical model for predicing cross-country vehicle performance. Appendix D. Performance of amphibious vehicles in the water-land interface (hydrologic geometry)
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-783-D, AD866165, 1970, 51 p

487. TI - Adverse effects of slopes on military operations
OS - Army Advanced Materiel Concepts Agency, Alexandria, VA
SO - 20 Sep 68, 55 p, AD867772

488. AU - Witney, B.D.
TI - The theory of penetration failure in compact soils
OS - Army Tank-Automotive Command, Warren, MI, Land Locomotion Div
SO - Nov 69, 175 p, AD865062

489. AU - Durham, G.N.
TI - Powered wheels in the turned mode operating on yielding soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-TR-M-76-9, ADA030701, 1976, 193 p

490. AU - McLean, R.G.; Jent, J.P.
TI - Product improvement test of sheridan weapon system, M551 (Arctic/universal track and wide sprocket wheel)
OS - Army Armor and Engineer Board, Fort Knox, KY
SO - 1 Dec 70, 24 p, AD880582

491. AU - Decell, J.L.
TI - Mobility exercise A (MEXA) field test program. Report 3. Performance of MEXA and three military vehicles in lateral obstacles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-70-11-3, AD875940, 1970, 90 p

492. AU - Taylor, D.; Doman, J.J.
TI - Truck tractors and semitrailers in MCB operations
OS - Naval Civil Engineering Lab, Port Hueneme, CA
SO - NCEL-TN-740, 1966, AD876497

493. AU - Blackmon, C.A.
TI - An analytical model for predicting cross-country vehicle performance. Appendix F. Soil-vehicle relations on soft clay soils (surface composition)
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-783-F, 1970

494. TI - U.S. Army test and evaluation command development test II (EP) - common test operations procedures, 'standard obstacles'
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 16 Sep 75, 9 p, ADA029316

495. AU - Gurganious, J.T.
TI - Portable Battalion Tactical Operations Center (BTOC) testbed design, fabrication, and design engineer test
OS - Army Land Warfare Lab, Aberdeen Proving Ground, MD
SO - Feb 73, 71 p, AD912753

496. AU - Shabeisk, J.J.; Putnam, R.
TI - 1971 Arctic trials of a 10-ton surface effect vehicle
OS - Naval Ship Research and Development Center, Bethesda, MD
SO - May 73, 142 p, AD916942

497. AU - Green, C.E.
TI - Event mixed company III project LN305: effectiveness of craters as barriers to mobility
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-M-73-5, 1973, 44 p, AD910627

498. AU - Allen, C.A.; Frey, B.A.; Rakowski, J.W.; Rinkel, R.C.
TI - Tactical vehicle pooling in the Corps/Army service area
OS - Research Analysis Corp, Mclean, VA
SO - Jul 72, 202 p, AD901900

499. AU - Rula, A.A.; Nuttall, C.J., Jr.
TI - An analysis of ground mobility models (ANAMOB)
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-71-4, AD886513, 1971, 326 p

500. AU - Sterrett, K.F.
TI - The Arctic environment and the Arctic surface effect vehicle
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH
SO - CRREL-76-1, ADA024819, 1976

501. AU - Gavan, G.R.
TI - Rollover protective structure (ROPS). Design, analysis and test of an improved ROPS for the military 6000-pound rough terrain forklift truck and a feasibility study of ROPS for the military 20-ton rough-terrain crane
OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Jul 75, 193 p, ADA015031

502. TI - Engineering design handbook: wheeled amphibians
OS - Army Materiel Command, Washington, D.C.
SO - 11 Jan 71, 425 p, AD881357

503. AU - Pates, B.A., Jr.
TI - Tactical mobility study for amphibious assault and post-assault in the mid-range period (FY 1970-79). Volume III.
OS - Marine Corps Development and Education Command, Quantico, VA Development Center
SO - Jun 70, 222 p, AD881479

504. AU - Clark, G.M.
TI - The land combat model (DYNCOM). Volume 2
OS - Ohio State Univ, Columbus Systems Research Group
SO - 1 Jan 70, 242 p, ADB001826

505. AU - Melzer, K.J.
TI - Performance of towed wheels operating in turned mode on soft soil--a pilot study
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-M-76-17, ADA028909, 1976, 98 p

506. AU - Spitzer, R.L.
TI - A reevaluation of the 60% gradeability requirement
OS - Army Tank-Automotive Command, Warren, MI
SO - Jan 75, 34 p, ADB001666

507. TI - Vehicle test facilities at Aberdeen Proving Ground
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 17 Mar 76, 61 p, ADA027035

508. TI - Drawbar pull
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 19 Nov 75, 11 p, ADA027202

509. AU - Turnage, G.W.
TI - Performance of soils under track loads. Report 3. Track mobility number for coarse-grained soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-TR-M-71-5-3, ADA026721, 1976, 108 p

510. AU - Lane, W.J.; Staursky, M.V.
TI - Concepts for design of lightweight track for the U.S. Marine landing vehicle assault (LVA)
OS - Aluminum Co of America Alcoa Center PA, David W. Taylor Naval Ship Research and Development Center, Bethesda, MD
SO - 20 Feb 76, 59 p, ADA024262

511. AU - Schreiner, B.G.; Willoughby, W.E.
TI - Validation of the AMC-71 mobility model
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-TR-M-76-5, ADA023609, 1976, 200 p

512. AU - Schreiner, B.G.; Willoughby, W.E.
TI - Validation of the AMC-71 mobility model. Appendix A: vehicle data. Appendix B. location and description of test sites. Appendix C: definitions of terrain terms and procedures used to collect terrain data for validation tests. Appendix D: basic terrain data
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-TR-M-76-5-App-A/D, ADA023608, 1976, 170 p

513. AU - Siorek, R.W.
TI - U.S. Army/FRG Army Mobility, Symposium; proceedings held in April 1975
OS - Army Tank-Automotive Command, Warren, MI
SO - Nov 75, 322 p, ADA021702

514. AU - Randolph, D.D.
TI - Comparison of the ride and mobility characteristics of selected commercial 1/4- to 3/4-ton vehicles and the military M151A2 utility truck
OS - Army Waterways Experiment Station, Vicksburg, MI
SO - WES-MP-M-76-6, 1976, 226 p, ADA022853

515. AU - Nuttall, C.J., Jr.; Randolph, D.D.
TI - Mobility analyses of standard- and high-mobility tactical support vehicles (HIMO study)
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-TR-M-76-3, 1976, 261 p

516. AU - Parry, S.H.
TI - Studies of mobility, agility and survivability in the land combat environment
OS - Naval Postgraduate School, Monterey, CA
SO - Sep 75, 147 p, ADA020052

517. TI - Vicksburg mobility exercise A: design of field test program. Report of meeting (2nd) held at Vicksburg, MS on 8-10 February 1967
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-4-979, ADA019174, 1968, 54 p

518. AU - Meyer, M.P.
TI - Bibliography of papers presented at meetings or in technical journals on studies of the mobility and environmental systems laboratory
OS - Army Waterways Experiment Station, Vicksburg, MS, Pavements/Soil Trafficability Info Anal Ctr
SO - PSTIAC-2, ADA018290, 1975, 32 p

519. AU - Hicks, J.G.; Orth, C.L.; Thomas, A.
TI - Sand mobility characteristics of offroad Army cargo trucks
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - AD-A018225, 1975

520. AU - Rush, Edgar S.
TI - Beach trafficability testing with off-road materials handling equipment, Anzio Beach, Little Creek, VA
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-M-74-5, ADA017723, 1974, 106 p

521. AU - Blackmon, Claude A.; Green, Charles E.
TI - Project diamond ore; phase IIA: effectiveness of craters as barriers to mobility
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-M-73-6, 1973m 46 p

522. AU - Hanamoto, B.
TI - Effects of variation in drawbar hitch location on vehicle performance
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH
SO - CRREL-SR-237, ADA016911, 1975, 19 p

523. AU - Hanamoto, B.
TI - Traction aid for wheeled vehicles
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH
SO - CRREL-SR-232, ADA013828, 1975, 13 p

524. AU - Green, Charles E.
TI - Project Essex I. Phase 1: mobility experiments
OS - Army Waterways Experiment Station, Vicksburg, MS, Defense Nuclear Agency, Washington, D.C.
SO - WES-MP-M-75-3, ADA011493, 1975, 85 p

525. AU - Gavan, G.R.
TI - Rollover protection structure (ROPS) design, analysis and test for the military 10,000-lb rough terrain forklift truck
OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - ADA008080, 1975, 192 p

526. AU - Tosh, John D.; Johnston, Alan A.; Frame, Edwin A.
TI - Performance of army engines with leaded and unleaded gasoline. Phase II: Field study evaluation
OS - Southwest Research Inst, San Antonio, TX, Army Fuels and Lubricants Research Lab, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Jan 75, 88 p, ADA005577

527. AU - Rogozhin, V.; Zamyshlyaev, Yu.
TI - GAZ-71 tracker transporter
OS - Army Foreign Science and Technology Center, Charlottesville, VA
SO - FSTC-HT-23-1769-73, Trans. of Za Rulem (USSR) n 2 p 9-10, 1973, AD785883

528. AU - Jurkat, P.; Nuttall, C.J.; Haley, P.W.
TI - The AMC '74 mobility model
OS - Stevens Inst of Tech, Hoboken NJ, Army Tank-Automotive Command, Warren, MI., Army Waterways Experiment Station, Vicksburg, MS., Army Materiel Command, Washington, D.C.
SO - May 75, 469 p, ADA014278

529. AU - Swanson, G.G.; Patin, T.R.
TI - Small-scale mobility tests in fine-grained layered soils
OS - Army Waterways Experiment Station, Vicksburg, MS., Army Materiel Command, Alexandria, VA
SO - AEWES-TR-M-75-1, ADA 013491, 1975, 77 p

530. AU - Baker, R.N.
TI - Development of a noise reduction cab for the U.S. Army 10,000-lb. rough terrain forklift truck
OS - Blachford (HL) Inc, Troy, MI, Noise Control Consulting Div, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - May 75, 37 p, ADA012273

531. TI - Off-road mobility research
OS - Cornell Aeronautical Lab Inc, Buffalo, NY, Army Research Office, Durham, N.C., Advanced Research Projects Agency, Arlington, VA
SO - Sep 67, 176, ADA012106

532. AU - Turnage, G.W.
TI - Measuring soil properties in vehicle mobility research. Report 7. Behavior of fine-grained soils under high-speed tire loads
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-652-7, ADA012146, 1975, 68 p

533. TI - Microthesaurus of vehicle mobility, environment and pavement terms
OS - Army Waterways Experiment Station, Vicksburg MS, Pavements/Soil Trafficability Info Anal Ctr, Army Materiel Command, Alexandria, VA
SO - PSTIAC-1, ADA011269, 1975, 135 p

534. AU - Yong, N.
TI - Screening technique for the mobile protected weapon system (MPWS) evaluation process
OS - Naval Surface Weapons Center, Dahlgren Lab, VA
SO - Apr 75, 60 p, ADA009091

535. TI - Trafficability tests with the airoll on organic and mineral soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-439, ADA006497, 1961, 57 p

536. TI - Study and evaluation in the field of environmental pollution related to the utilization of army materiel
OS - Southwest Research Inst, San Antonio, TX, Army Fuels and Lubricants Research Lab, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Oct 74, 36 p, ADA003335

537. TI - U.S. Army logistic voyageur hardening analysis II
OS - Bell Aerospace Co, Buffalo, NY, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Nov 74, 176 p, ADA003274

538. AU - Moffitt, J.V.; Lestz, S.J.
TI - Water induction dtudies in a military dpark ignition engine
OS - Southwest Research Inst, San Antonio, TX, Army Fuels and Lubricants Research Lab, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - ADA-003332, 1974, 43 p, NTIS Prices: PC A03/MF A01

539. AU - Kulikov, A.; Kuroedov, A.N.; Dyudin, V.K.; Slepov, Yu. P.
TI - KS-3563 truck-mounted crane
OS - Army Foreign Science and Technology Center, Charlottesville, VA
SO - FSTC-HT-23-1348-73, ADA002637, 1974, Trans. of Stroitelnye i Dorozhnye Mashiny (USSR) n 9, p 9-11, 1972

540. AU - Suhler, S.A.; Owen, T.E.; Hipp, J.E.; Peters, W.R.; Tranbarger, O.
TI - Seismic and acoustic target locating devices (TLD-4 and TLD-5)
OS - Southwest Research Inst, San Antonio, TX, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Final Technical Rept., 19 Dec 73-1 Oct 74, ADA002061, 1974

541. AU - Dobbins, J.E.
TI - Tread design study of 9.00R20 radial ply tires
OS - Nevada Automotive Test Center, Carson City, Army Tank-Automotive Command, Warren, MI
SO - Jul 74, 251 p, ADA002074

542. AU - Baker, R.N.
TI - Development of noise reduction kits for the U.S. Army 10,000-lb rough terrain forklift truck
OS - Blachford (HL) Inc, Troy, MI, Noise Control Consulting Div, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Final technical rept, AD786595, 1974, 153 p

543. AU - Grant, J.W.
TI - A technique for the validation of vehicle models using the road simulator
OS - Army Tank-Automotive Command, Warren, MI
SO - 1973, 14 p, AD785627

544. AU - Hibler, W.D., III
TI - A sea ice terrain and mobility model
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH
SO - 1974, 16 p, AD785631

545. AU - Murphy, N.R. Jr.; Barber, V.C.
TI - A vehicle-road compatibility analysis and modification system (VRCAMS). Part I and II
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - 1973, 16 p, AD785658

546. AU - De Martinis, S.A.
TI - Rollover protective structure (ROPS) for the Allis Chalmers 645M military front end loader
OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Aug 74, 91 p, AD 785594

547. AU - Gavan, G.R.; De Martinis, S.A.
TI - Rollover protective structure (ROPS) design, analysis, and test for Caterpillar 830MB and Clark 290M cedium wheeled tractors. Volume I.
OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Final rept., Jul 72-Jul 74, AD785592, 179 p

548. AU - Gavan, G.R.; De Martinis, S.A.
TI - Rollover protective structure (ROPS) design, analysis, and test for Caterpillar 830MB and Clark 290M medium wheeled tractors, Volume II.
OS - Lockheed Propulsion Co, Redlands, CA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Final rept. Jul 72-Jul 74, AD785593, 374 p

549. AU - Randolph, D.D.; Blackmon, C.A.
TI - Terrain analysis for the Armored Reconnaissance Scout Vehicle Test Program
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Rept. for Dec 72-Oct 73, AD776387

550. AU - Emanuel, J.C.
TI - Mission analysis of 1 1/4-ton limited mobility truck
OS - Army Materiel Systems Analysis Activity, Aberdeen Proving Ground, MD
SO - Technical rept., AD784064, 1974, 47 p

551. AU - Herb, H.
TI - Armored car VTT-AML
OS - Army Foreign Science and Technology Center, Charlotesville, VA
SO - FSTC-HT-23-194-73, AD784316, 1973, 6 p

552. AU - Scott, J.A., Jr.
TI - Automatic vehicle classification system
OS - Ensco Inc, Springfield, VA, Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Jun 74, 122 p, AD784354

553. AU - Turnage, G.W.
TI - Measuring soil properties in vehicle mobility research. Report 6. Resistance of coarse-grained soils to high-speed penetration
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Jul 74, 104 p, WES-TR-3-652-6, AD781991

554. AU - Hanamoto, B.
TI - Cobra: positive pitch controlled articulated testbed
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH
SO - CRREL-SR-207, 1974, AD780695, 15 p

555. AU - Gurganious, J.T.
TI - Engineer test and user evaluation of UNA-track kit
OS - Army Land Warfare Lab, Aberdeen Proving Ground, MD
SO - May 74, 57 p, AD780740

556. AU - Stilbans, Z.
TI - UAZ-469 replaces GAZ-69
OS - Army Foreign Science and Technology Center, Charlottesville, VA
SO - Trans. of Za Rulem (USSR) n 12, p 12, 1972, by James McVay, Rept. No: FSTC-HT-23-1510-73, AD781022, 1974

557. AU - Jurkat, M.P.
TI - Mathematical model of wheeled vehicles exiting from the riverine environment
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - Feb 74, 66 p, AD779550

558. AU - Kugath, D.A.; Laniewski, J.P.; Makinson, J.B.; Pieper, D.L.; Wilt, D.R.
TI - Mobility aid study
OS - General Electric Co, Philadelphia, PA. Re-entry and Environmental Systems Div.
SO - Jan 73, 56 p, AD909053

559. AU - Hicks, J.G.; Clark, W.F.; Tacey, C.; Thomas, A.; Orth, C.
TI - Beach mobility tests and analysis of large, cargo-handling vehicles
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Apr 74, 212 p, AD778167

560. AU - Kennedy, J.G.
TI - Trafficability of soils. Supplement 20. Development of vehicle performance prediciton equations and classification system for coarse-grained soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TM-3-240-Suppl-20, AD778717, 1974, 77 p

561. AU - Ehrlich, R.; Cantwell, F.; Carr, J.; Dugoff, H.J.; Latson, D.
TI - Report of the Ad Hoc Working Group in Innovative Mobility Concepts
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - Oct 73, 167 p, AD773016

562. AU - Briggs, J.
TI - Project armor obstacle II
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-E-73-4, AD773667, 1973, 94 p

563. AU - Boutros, A.N.; Jurkat, M.P.
TI - Effect of variations of the terrain digitizing interval of the AMC 71 mobility model
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - Oct 73, 29 p, AD769636

564. AU - Bischoff, T.J.
TI - Heavy equipment transporter development
OS - Army Tank-Automotive Command, Warren, MI
SO - Sep 72, 51 p, AD772703

565. AU - Salisbury, N.E.
TI - Development of a terrain prediction model for West Germany
OS - Army Materiel Systems Analysis Agency, Aberdeen Proving Ground
SO - Jun 73, 85 p, AD768704

566. AU - Eckles, A.J. III; Garry, T.A.; Mullen, W.C.; Aschenbrenner, H.
TI - HELAST II. A field study of the effects of mobility/agility on target presentation and defender reaction. Addendum
OS - Human Engineering Lab, Aberdeen Proving Ground, MD
SO - Jul 73, 7 p, AD769607

567. AU - Tootle, J.N.
TI - Feasibility analysis and evaluation study of a remotely controlled vehicle
OS - National Water Lift Co, Kalamazoo, MI
SO - 22 May 73, 296 p, AD768213

568. AU - Myrick, E.
TI - Magnetic signature characteristics investigation
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Jul 73, 35 p, AD766236

569. AU - Pope, W.S.; Doerschuk, D.C.; Tierney, J.M.
TI - Miniature, remotely controlled land and water vehicles
OS - Battelle Columbus Labs, OH Tactec
SO - Jul 72, 157 p, AD761665

570. AU - Atkins, R.M.; Wallace, R.R. Jr.; Felts, R.
TI - Ribbon bridge boat transporter system study
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Oct 72, 40 p, AD756874

571. AU - Turnage, G.W.
TI - Performance of soils under tire loads. Report 8. Application of test results to tire selection for off-road vehicles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-666-8, AD751750, 1972, 164 p

572. AU - Woods, H.K.; Shamburger, J.H.
TI - Mobility environmental research study. Report I. Selection and description of test areas, U.S. Military Reservations
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper 4-726, AD745151, 1965, 234 p

573. AU - Siorek, Richard W.
TI - Wheel travel and its effects on mobility
OS - Army Tank-Automotive Command, Warren, MI
SO - Jun 72, 46 p, AD746252

574. AU - Knight, S.J.; Freitag, D.R.
TI - Comments on mobility research
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-623, AD744221, 1964, 21 p

575. TI - Tractor, tracked
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - AD733298, 1971, 18 p

576. AU - Dornbusch, W.K., Jr.
TI - Mobility environmental research study. A quantitative method for describing terrain for ground mobility. Volume VII. Development of factor-complex maps for ground mobility
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-726-7, AD833829, 1968, 69 p

577. AU - Niemi, E.W.; Bayer, R.
TI - Analytical prediction of vehicle mobility muskeg
OS - Michigan Technological Univ, Houghton Keweenaw Research Center
SO - Jun 70, 92 p, AD730792

578. TI - Truck, dump
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 1 Jul 71, 20 p, AD728452

579. TI - The AMC '71 mobility model. Volume I. Summary report
OS - Army Tank-Automotive Command, Warren, MI
SO - Jul 73, 62 p, AD766733

580. TI - The AMC '71 mobility model. Volume II. Appendices A, B and C
OS - Army Tank-Automotive Command, Warren, MI
SO - Jul 73, 315 p, AD766734

581. TI - Transportability
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 7 Feb 73, 73 p, AD765456

582. AU - Turnage, G.W.
TI - Measuring soil properties in vehicle mobility research. Report 5. Resistance of fine-grained soils to high-speed penetration
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-652-5, AD763184, 1973, 78 p

583. AU - Sinclair, A.H.; Otto, R.J.
TI - Unitized high-mobility suspension and drive system for track vehicles
OS - Office of the Secretary of the Army, Washington, D.C.
SO - PATENT-3 614 125, AD163735

584. AU - Wolfe, M.J.
TI - Evaluation of a straddle-lift vehicle as a container handler/transporter for amphibious operations
OS - Naval Civil Engineering Lab, Port Hueneme, CA
SO - Mar 73, 39 p, AD759676

585. AU - Costes, N.C.; Farmer, J.E.; George, E.B.
TI - Mobility performance of the lunar roving vehicle terrestrial studies APOLLO 15 results
OS - National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL
SO - NASA-TR-R-401; 1972, 87 p

586. AU - Keenan, R.E. Jr.
TI - Effects of terrain power spectral density shaping and measurement interval on a vehicle ride simulation
OS - Stevens Inst. of Tech, Hoboken, NJ, Davidson Lab
SO - Feb 73, 126 p, AD756497

587. AU - Rush, E.S.
TI - Trafficability tests with jumbo truck on organic and coarse-grained mineral soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-438, AD756331, 1961, 23 p

588. AU - Rula, A.A.
TI - A limited study of snap-tracs
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-322, AD756291, 1959, 17 p

589. AU - Knight, S.J.; Freitag, D.R.
TI - Measuring soil trafficability characteristics
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc Paper-4-462, AD754333, 1961, 19 p

590. AU - Knight, S.J.; Meyer, M.P.
TI - A technique for mapping trafficability
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc Paper-4-461, AD754334, 1961, 16 p

591. AU - Tarkhanovskii, V.
TI - An all-terrain amphibious vehicle (vezdekhod-amfibiya)
OS - Army Foreign Science and Technology Center, Charlottesville, VA
SO - TSTC-HT-23-1803-72, AD754831, 1972, 5 p

592. AU - Rush, E.S.
TI - Utility carrier development program. Report 1. Limited study of effects of jungle trail characteristics on performance of selected self-propelled vehicles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-M-69-5-1, AD753427, 1969, 21 p

593. AU - Trautwein, W.
TI - Design, fabrication and delivery of an improved single elastic loop mobility system (ELMS)
OS - Lockheed Missiles and Space Co, Huntsville, AL, Research and Engineering Center
SO - NASA-CR-123840, 1972

594. AU - Trautwein, W.
TI - Design, fabrication and delivery of an improved single elastic loop mobility system (ELMS). Volume 2. Technical Report
OS - Lockheed Missiles and Space Co., Huntsville, AL, Research and Engineering Center
SO - NASA-CR-123841, 1972, 142 p

595. AU - Dugoff, H.; Rula, A.
TI - Analytical prediction of vehicle mobility
OS - Army Tank-Automotive Command, Warren, MI
SO - 1972, 15 p, AD750319

596. AU - Murphy, N.R. Jr; Lessem, A.S.
TI - A unified method for describing vehicle dynamics
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - 1972, AD750355

597. AU - Smith, J.L.
TI - Effects of tread pattern on the surface traction of terra-tires
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-942, 1967, 27 p, AD747099

IT - tires, skidding, soils, trafficability, tracked vehicles, mobility, soil mechanics, friction, clay

598. AU - Green, A.J. Jr; Switzer, G.G.
TI - Vehicle dynamics research at Waterways Experiment Station
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-M-69-2, AD746760, 1969, 29 p

599. AU - Shockley, W.G.
TI - Bumps and grinds: studies in body motion
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-893, AD747098, 1967, 69 p

600. AU - Crosheck, J.E.
TI - Simulation of stochastic input - part I
OS - Army Weapons Command, Rock Island, IL, Weapons Lab
SO - Jun 72, 38 p, AD746237

601. AU - Freitag, D.R.; Smith, M.E.; Turnbull, W.J.; Shockley, W.G.
TI - Center-line deflection of pneumatic tires noving in dry sand
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-750, AD745152, 1965, 28 p

602. AU - Ageikin, Ya.S.
TI - Evaluation of ground deformability with respect to vehicle mobility
OS - Army Foreign Science and Technology Center, Charlottesville, VA
SO - FSTC-HT-23-480-71, AD745547, 1972. Trans. from Avtomobilnaya Promyshlennost (USSR) n 6, 1970, by James McVay

603. TI - Airoll performance in snow
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-513, AD744463, 1962

604. TI - A comparison of quantitative versus nonquantitative terrain descriptive systems for mobility analysis
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-652, AD745148, 1964, 31 p

605. AU - Freitag, D.R.; Janosi, Z.J.
TI - Tracks versus wheels in soft soil and snow
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-4-651, AD744222, 1964, 57 p

606. AU - Freitag, D.R.; Green, A.J.; Murphy, N.R., Jr.
TI - Normal stresses at the tire-soil interface in yielding soils
OS - Army Waterways Experiment Station Vicksburg, MS
SO - AEWES-Misc-Paper-4-629, AD744224, 1964, 34 p

607. AU - Bunn, R.D.
TI - Analysis of wheel performances (at zero slip rate) in cereclay
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - May 72, 134 p, AD743977

608. AU - Grabau, W.E.
TI - Terrain evaluation for mobility purposes
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-3-592, AD744216, 1963

609. TI - Engineering design handbook automotive series. Automotive bodies and hulls
OS - Army Materiel Command, Washington, D.C.
SO - 20 Apr 70, 406 p, AD873103

610. AU - Patin, T.R.
TI - Evaluation of surface shear strength measurements for use in laboratory mobility studies
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc Paper-M-72-5, 1972, AD743167

611. Au - Patin, T.R.
TI - Performance of soils under tire loads. Report 7. Extension of mobility prediction procedures to rectangular-cross-section tires in coarse-grained soil
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-666-7, AD741770, 1972, 41 p

612. TI - Maintenance equipment, mobile
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 20 Mar 72, 5 p, AD740165

613. AU - Switzer, G.G.
TI - Dynamics of wheeled vehicles. Report 4. A statistical analysis of obstacle-vehicle-speed systems
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-68-1-4, AD739916, 1972, 58 p

614. TI - Surface transportability (vehicles)
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 22 Aug 67, 27 p, AD738927

615. AU - Jones, C.S., Jr; Nola, F.J.
TI - Mobility systems activity for lunar rovers at MSFC
OS - National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL
SO - NASA-TM-X-64623, 1971, 41 p

616. TI - Carriers, full tracked
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 9 Feb 72, 11 p, AD738602

617. AU - Edwards, D.C.
TI - Expendable mine-clearing roller (ENSURE 202.1)
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Jan 72, 106 p, AD737723

618. AU - Jurkat, M.P.
TI - Data and program considerations for path selection in the AMC mobility model
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - Oct 71, 17 p, AD738164

619. AU - Vaughn, D.A.; Felts, R.
TI - Army countermine mobility equipment system (ACMES)
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Nov 71, 102 p, AD735350

620. AU - Turnage, G.W.
TI - Performance of soils under track loads. Report 2. Prediction of track pull performance in a desert sand
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-71-5-2, AD733926, 1971, 92 p

621. TI - Tractor, wheeled
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 1 Nov 71, 18 p, AD734851

622. AU - Melzer, K.J.
TI - Performance of dual-wheel configurations in coarse-grained soil
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-71-8, AD732864, 1971, 49 p

623. TI - Truck, pipeline construction
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 1 Sep 71, 13 p, AD729842

624. AU - Turnage, G.W.
TI - Performance of soils under track loads. Report 1. Model track and test program
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-71-5-1, AD728496, 1967, 89 p

625. AU - Sela, A.D.; Ehrlich, I.R.
TI - Prediction of rigid wheel performance from plate sinakge tests
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - Sep 71, 71 p, AD730687

626. AU - Melzer, K.J.
TI - Measuring soil properties in vehicle mobility research. Report 4. Relative density and cone penetration resistance

OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-652-4, 1971, 50 p, AD729367

627. AU - Morris, B,L.
TI - Evaluation of nonexpendable mine clearing roller wheels under blast attack
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Apr 71, 64 p, AD728158

628. AU - Shamburger, J.H.; Grabau, W.E.
TI - Mobility environmental research study: A quantitative method for describing terrain for ground mobility. Volume I. Summary
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-726-1, 1968, AD835392

629. AU - Wenzel, A.B.; Garza, L.R.
TI - A preliminary report of the technical objectives and anticipated functional requirements of the nonexpendable mine roller system
OS - Southwest Research Inst, San Antonio, TX
SO - 1 Sep 70, 31 p, AD728123

630. AU - Kennedy, J.G.; Rush, E.S.
TI - Trafficability of soils. Supplement no. 18. Development of revised mobility index formula for self-propelled wheeled vehicles in fine-grained soils
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TM-3-240-18-Suppl, AD832912, 1968, 90 p

631. AU - Daneker, G.W.
TI - Military potential test of sleds, amphibious, marginal terrain (SAMT)
OS - Development and Proof Services, Aberdeen Proving Ground, MD
SO - Apr 67, 30 p, AD811032

632. AU - Murphy, N.R., Jr.
TI - Performance of soils under tire loads. Report 6. Effects of test techniques on wheel performance
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-666-6, AD823500, 1967, 57 p

633. AU - Henderson, T.B.
TI - Shock and vibration technical design guide. Volume I. Methodology and design philosophy. Volume II. Analytical procedures, book 1 of 2
OS - Hughes Aircraft Co, Fullerton, CA. Environmental Engineering Dept.
SO - 1968, 185 p, AD844559

634. TI - Liquid transporting and dispensing equipment
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD

SO - Final rept. on materiel test procedure, AD724087, 1971, 26 p

635. AU - Wright, R.C.; Burns, J.R.
TI - Mobility environmental research study. A quantitative method for describing terrain for ground mobility. Volume 2. Surface compound
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-726-2, AD827289, 1968

636. AU - Broughton, J.D.; Adder, E.E.
TI - Mobility environmental research study: A quantitative method for describing terrain for ground mobility. Volume IV. Vegetation
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-3-726-4, AD830184, 1968, 159 p

637. AU - Swanson, G.D.
TI - Studies of dual and tandem rigid wheel performance in sand
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - AD726384, 1971, 132 p

638. TI - Transporter and stringing boom
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD726897, 1971, 19 p

639. TI - Launcher, assault, bridge
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD726898, 1971

640. TI - Truck, wrecker, crane
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD725524, 1971, 25 p

641. AU - Johnsen, J.L.
TI - The effect on drawbar-pull in sand of the lateral spacing of cleats
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - Jun 71, 68 p, AD725472

642. TI - Truck, stake or flat bed
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Materiel test procedure, AD725523, 1969

643. AU - Kenyon, L.W.
TI - Engineering test (desert) of truck, forklift, multipurpose, 4,000-pound capacity, UL-42 (sandpiper)
OS - Yuma Proving Ground, AZ
SO - Nov 66, 80 p, AD805579

644. AU - Smith, F.G.
TI - Analysis of wheel performance (at zero slip rate) using the wheel soil system constant

OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - Final rept, AD724151, 1971, 125 p

645. AU - McKechnie, R.M., III
TI - HPMPH: A digital computer program for computer-aided design
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Apr 71, 38 p, AD724622

646. TI - Mount, gun, vehicular and ground
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD724067, 1971

647. AU - Lessem, A.S.
TI - Dynamics of wheeled vehicles. Report 2. Implementation of Wiener-Bose theory and application to ride dynamics
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-68-1-2, AD723403, 1971, 135 p

648. AU - Murphy, N.R., Jr.
TI - Dynamics of wheeled vehicles. Report 3. A statistical analysis of terrain-vehicle speed
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-68-1-3, 1971, AD723405

649. TI - Vehicle, recovery, full tracked
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD723024, 1971, 23 p

650. TI - Combat engineer vehicle
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, 1971, 44 p

651. TI - Trailer, cargo, amphibious
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD722726, 1971, 19 p

652. TI - Tank, combat, full tracked
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD720564, 1971, 45 p

653. AU - Blackmon, C.A.; Rula, A.A.
TI - Event dial pack; project LN309: effectiveness of craters as barriers to mobility
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-Misc-Paper-M-71-4, AD720986, 1971, 56 p

654. TI - Steering
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD879047, 1970, 15 p

655. TI - Truck, utility
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 1 Feb 71, 20 p, AD720526

656. TI - Truck, wrecker
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 12 Feb 71, 16 p, AD719678

657. AU - Young, D.A.
TI - Lightweight, high mobility track
OS - Chrysler Corp, Detroit MI, Defense Operations Div
SO - Final rept, AD719921, 1968, 66 p

658. TI - Tracking and hitting performance. Moving gun mount-moving target
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD719087, 1970, 27 p

659. TI - Soft-soil vehicle mobility
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD871765, 1970, 11 p

660. AU - Selivanov, I.I.
TI - Wheeled and tracked off-the-road high-mobility vehicles
OS - Army Tank-Automotive Center, Warren, MI, Foreign Technology Office
SO - 8 Jul 69, 338 p, AD695671, Edited trans. mono. of Avtomobili i Transportnye Gusenichnye Mashiny Vysokoi Prokhodimosti (Motor Vehicles and High Passability Transportation Crawler Trucks), Moscow, 1967, 271 p

661. AU - Ehrlich, I.R.; Kamm, I.O.; Worden, G.
TI - Studies of off-road vehicles in the riverine environment. Volume I. Performance afloat
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - Oct 68, 149 p, AD688965

662. AU - Bartlett, G.E.; Deutschman, J.N.
TI - Off-road mobility research. Volume 2
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY
SO - Summary technical rept. no. 3, Aug 66-Oct 68, AD690170, 1968, 165 p

663. AU - Krolikiewicz, M.
TI - Compatibility study of the interface between helicopter external transport of cargo and other modes of cargo transport
OS - Army Air Mobility Research and Development Lab, Fort Eustis, VA
SO - Technical memo, ADA047933, 1973, 24 p

664. AU - Elpatevskii, M.M.; Knize, A.A.; Konstantinov, V.K.; Pisarev, M.M.
OTI - frezernye kanalokopateli na osushenii lesov
TI - Power ditch-diggers in forest drainage
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Trans. of Gidrotekhnika i Melioratsiya (USSR) v 20, n 2, p 50-54, Feb 68, AD673575, 1968, 11 p

665. TI - Night performance of combat vehicles
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Materiel test procedure, AD718689, 1968, 12 p

666. TI - Airborne vehicles
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Materiel test procedure, AD718727, 1967, 6 p

667. TI - Flamethrower, mechanized
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - AD718747, 1970, 33 p

668. TI - Missile carrier, self-propelled
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Materiel test procedure, AD718658, 1967, 18 p

669. TI - Traction devices
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Rept. on materiel test procedure, AD718012, 1965, 11 p

670. TI - Motorcycles and scooters
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Rept. on materiel test procedure, 1968, AD718020, 24 p

671. TI - Gradeability and side slope performance mobility
SO - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 24 Nov 65, 7 p, AD718003

672. TI - Logistics-overthe-shore (LOTS) (vehicles)
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD876402, 1970, 16 p

673. TI - Semi-trailer van, (cargo, supply)
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD873532, 1970, 22 p

674. TI - Truck, cargo
OS - Army test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD875667, 1970, 13 p

675. TI - Bridge, assault, floating mobile
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD

SO - Final rept. on materiel test procedure, AD872081, 1970, 16 p

676. TI - Vehicles, field artillery application
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - 25 May 70, 26 p, AD871787

677. TI - Armored vehicle vulnerability to conventional weapons
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD871910, 1970, 27 p

678. TI - Road mobility
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD871132, 1970, 14 p

679. TI - Missile station, guidance and launching, vehicular mounted
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD871343, 1970, 15 p

680. TI - Tractor-wheeled, aircraft, towing
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, 1969, 31 p, AD868557

681. TI - Trailer, fire control van
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD871128, 1970, 30 p

682. TI - Cross-country mobility
OS - Army Test and evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD871129, 1970, 12 p

683. AU - Wong, J.Y.
TI - Optimization of the tractive performance of four-wheel-drive off road vehicles
OS - Carleton Univ, Ottawa (Ontario) Faculty of Engineering
SO - 1970, 22 p, AD714475

684. TI - Trailer, bomb
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Final rept. on materiel test procedure, AD866661, 1969, 32 p

685. AU - Taylor, J.B.
TI - Weapon firepower potential
OS - Naval Postgraduate School, Monterey, CA
SO - AD712792, 1970, 42 p

686. AU - Bonder, S.
TI - Parametric design/cost effectiveness (PDCE) study on advanced forward area air defense systems (AFAADS) gun systems. Volume IV-1. Engineering models
OS - Michigan Univ, Ann Arbor, Systems Research Lab
SO - Aug 69, 314 p, AD865479

687. AU - Wiendieck, K.W.
TI - A preliminary study of seafloor trafficability and its prediction
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-70-8, AD710965, 1970, 121 p

688. AU - Goda, H.L.
TI - Suggested areas for modification or development of vehicles and equipment for urban military operations overseas
OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div.
SO - May 70, 63 p, AD711591

689. AU - Kloc, I.
TI - Vehicle mobility tests, soft soil slopes
OS - Jet Propulsion Lab, CA Inst of Tech, Pasadena
SO - NASA-CR-109799, 58 p, 1970

690. TI - Proceedings of the SIPRE Snow Compaction Conference (2nd) held at St. Paul, MN, on 24-25 May 1951
OS - Snow Ice and Permafrost Research Establishment, Wilmette, IL
SO - SIPRE-3, AD711900, 1951, 50 p

691. AU - Ehrlich, I.R.; Kolb, R.G.; Sloss, D.A.; Corridon, L.M.
TI - Studies of off-road vehicles in the riverine environment. Volume III. Associated environmental factors
OS - Stevens Inst. of Tech, Hoboken, NJ, Davidson Lab
SO - Apr 70, 105 p, AD706234

692. AU - Lund, I.A.; Meyer, M.P.
TI - Rainfall, soil moisture and trafficability in the vicinity of Saigon
OS - Air Force Cambridge Research Labs, LG Hanscom Field, MA
SO - Air Force surveys in geophysics, AD707823, 1970, 20 p

693. AU - Szten, E.M.; Billion, W.E.; Inglis, E.; Miller, K.; Simmons, K.R.
TI - Analysis of cross-country surface vehicles for South Vietnam
OS - Research Analysis Corp, McLean, VA
SO - Technical memo, AD478550, 1966, 342 p

694. AU - Freitag, D.R.; Green, A.J; Melzer, K.J.
TI - Performance evaluation of wheels for lunar vehicles
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - AEWES-TR-M-70-2, AD702246, 1970, 207 p

695. AU - Benjamin, P.; Bottomley, T.A.; Head, J.W.; Yates, M.T.
TI - Evaluation of mobility modes on lunar exploration traverses - Marius Hills, Copernicus Peaks, and Hadley Appennines Missions
OS - Bellcomm, Inc, Washington, D.C.
SO - NASA-CR-108134, 1969, 56 p

696. AU - Simon, H.P.
TI - Proposed concepts of ground support and supply equipment for air-assault operations
OS - Army Transportation Research Command, Fort Eustis, VA
SO - Technical rept., AD701889, 1964, 18 p

697. AU - McKechnie, R.M., III
TI - VEH digital computer program
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - AD701901, 1969, 97 p

698. AU - Sloss, D.A.; Ehrlich, I.R.; Worden, G.
TI - Studies of off-road vehicles in the riverine environment. Volume II. Analytical method for egress evaluation
OS - Stevens Inst of Tech, Hoboken, NJ, Davidson Lab
SO - Oct 69, 67 p, AD697160

699. AU - Haley, P.W.; Janosi, Z.J.
TI - The effect of tire chains on wheeled vehicle mobility
OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab
SO - Oct 66, 21 p, AD803427

700. AU - Miller, P.M.
TI - The application of the visioplasticity method to soft-soil mobility problems
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY
SO - Sep 68, 51 p, AD696440

701. AU - Yong, R.N.; Japp, R.D.; Windisch, S.J.
TI - Soil bin studies
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY
SO - Sept 68, 49 p, AD695363

702. AU - Liston, R.A.; Hanamoto, B.
TI - The drawbar pull-weight ratio as a measure of vehicle performance
OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab
SO - Aug 66, 53 p, AD488513

703. AU - Roesler, D.J.
TI - Study of an electrically propelled, high-speed, air-cushion amphibian
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Research rept. Jun-Dec 68, AD691724, 1969, 108 p

704. AU - Parry, J.T.; Heginbottom, J.A.; Cowan, W.R.
TI - Terrain analysis in mobility studies for military vehicles
OS - McGill Univ, Montreal (Quebec) Dept of Geography
SO - Land Evaluation, 1968, p 160-170

705. AU - Bartlett, G.E.; Deutschman, J.N.
TI - Off-road mobility research, Volume 1
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY
SO - CAL-VJ-2330-G3-Vol-1, AD690169, 1968, 164 p

706. AU - Dagan, G.; Tulin, M.P.
TI - A study of the steady flow of a rigid-plastic clay beneath a driven rigid wheel
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY
SO - Technical rept., Apr-Sep 68, AD689571, 1968

707. AU - Sugarman, R.C.; Isada, N.M.; Sussman, E.D.
TI - Off-road driving simulation: design for a moving base simulator
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY
SO - Technical memo, Nov 67-Sep 68, AD689577, 1969, 65 p

708. AU - Gwyer, J.
TI - River-crossing equipment
OS - Library of Congress, Washington, D.C. Aerospace Technology Div.
SO - Surveys of foreign scientific and technical literature, AD688490, 1969

709. AU - McAdams, H.T.
TI - Computer mapping and data presentation
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY
SO - Technical memo, AD688672, 1969, 116 p

710. AU - Pleuthner, R.L.
TI - A critique on the performanc of off-road vehicles full-scale test results and prediction method evaluation
OS - Cornell Aeronautical Lab, Inc, Buffalo, NY
SO - Technical memo, Oct 67-Jul 68, 1969, AD685884, 79 p

711. AU - Wasynczuk, V.; Glomb, R.
TI - Conversion of an M52-M131A5 tractor tanker trailer into high mobility test vehicle
OS - Barnes and Reinecke Inc, Chicago, IL
SO - Final rept, AD680219, 1968

712. AU - Bennington, G.; Lubore, S.
TI - Resource alloction for transportation (RAFT)
OS - Mitre Corp, Mclean, VA
SO - AD684709, 1969

713. AU - Jones, A.W.
TI - ARPA workshop on improvement of off-the-road ground mobility
OS - Institute for Defense Analyses, Arlington, VA, Science and Technology Div
SO - Note N-583, 1968, AD678331, 17 p

714. AU - Kolifrath, M.G.; Purvis, R.E.; Wachs, M.
TI - Conceptual framework for a tactical logistic vehicle evaluation methodology
OS - Army Materiel Systems Analysis Agency, Aberdeen Proving Ground, MD
SO - Technical memo, AD675484, 1968

715. AU - Hoop, H.H.
TI - A survey of terrestrial mobility techniques for application to exploration of lunar and planetary surfaces
OS - Redstone Scientific Information Center, Redstone Arsenal, AL
SO - May 66, 119 p, AD489636

716. AU - Wilber, G.F.
TI - Experimental model, marginal-terrain assault bridge and armored personnel carrier transporter and launcher
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Design test rept., AD671637, 1968, 86 p

717. AU - Gaddy, L.D. Jr
TI - Fuel cell-electric propulsion test rig (modified M-37, 3/4-ton cargo truck)
OS - Army Mobility Equipment Research and Development Center, Fort Belvoir, VA
SO - Engineering rept., Jul 65-Dec 67, AD666763, 1968, 49 p

718. AU - Kostoff, P., Bhangsbha, S.
TI - Mobility for counterinsurgency warfare in Thailand
OS - Military Research and Development Center, Bangkok (Thailand)
SO - 1968, 30 p, AD667927

719. TI - Lunar surface mobility systems comparison and evolution study (MOBEV), final report
OS - Bendix Corp, Ann Arbor, MI
SO - NASA-CR-92641, BSR-1464, 1966, 186 p

720. AU - Grabau, W.E.
TI - A suggested procedure for the selection and description of reference test areas
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - Misc-Paper 4-921, AD658659, 1967, 31 p

721. AU - Vaughan, O.H., Jr
TI - Lunar environment - design criteria models for use in lunar surface mobility studies
OS - National Aeronautics and Space Administration, Marshall Space Flight Center, Huntsville, AL
SO - NASA-TM-X-53661, 1967, 47 p

722. AU - Holdridge, L.R.; Duke, J.A.; Finch, W.A.; Grenke, W.C.; Hennsey, H.

TI - El real environmental survey, Darien Province, Republic of Panama, 1962
OS - Wilson Nuttall Raimond Engineers, Inc, Chestertown, MD
SO - Jan 64, 345 p, AD650762

723. AU - Lassaline, D.M.; Baker, W.J.; Sloss, D.A., Jr; Miranda, C.X. C.F.
TI - Pilot study of river frequency
OS - Detroit Univ, MI, Dept of Civil Engineering
SO - Mar 67, 35 p, AD655269

724. AU - Haley, P.W.
TI - Mobility environmental research study one-pass program
OS - Army Tank-Automotive Center, Warren, MI, Land Locomotion Lab
SO - Jan 65, 66 p, AD467165

725. AU - Roach, C.D.
TI - Design of wheeled amphibians
OS - Army Transportation Research Command, Fort Eustis V
SO - Research technical memo, 1960, AD637843, Presented to the Chesapeake Section of the Society of Naval Architects and Marine Engineers, Apr 21, 1960

726. AU - Langway, CC., Jr.
TI - Snow studies and other observations - operation King Dog, Sondrestrom, Greenland
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH
SO - SR-31, 1959, AD634469

727. AU - Abele, G.
TI - Performance testing of an air cushion vehicle on the Greenland Ice Cap
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH
SO - Special rept. 91, 1966, AD632570

728. AU - Abele, G.
TI - Subsurface transportation methods in deep snow
OS - U.S. Army Cold Regions Research and Engineering Lab, Hanover, NH
SO - TR-160, AD631949, 1965

729. TI - Stress analysis, study of the M4 van expansible and adapter, detachable running gear
OS - Gichner Mobile Systems, Inc, Beltsville, MD
SO - Final tech rept, 1966, AD636445

730. AU - McRae, J.L.
TI - Development of a formula for towing resistance for a wheel in soft soil

OS - Army Waterways Experiment Station, Vicksburg, MS, Mobility and Environmental Div.
SO - Presented at the Army Science Conference (1966), U.S. Military Academy, West Point, NY, 14-17 June 1966. Complete proceedings available in two unclassified volumes as AD634615 and AD634616 and one classified volume available to qualified DDC users

731. AU - Dobson, F.A.; Fulton, D.G.
TI - Feasibility study for lunar worm planetary roving vehicle concept, final technical report
OS - Aeronutronic, Newport Beach, CA
SO - NASA-CR-66098, RSC-6720, 1966, 202 p

732. TI - Vicksburg mobility exercise A: vehicle analysis for remote-area operation
OS - Army Waterways Experiment Station, Vicksburg, MS
SO - WES-MP-4-702, 1965, AD613366

733. AU - Mellinger, F.M.; Hubbard, J.H.; Peters, R.L.
TI - Photoelastic studies for vehicle mobility research
SO - WES-CR-3-118, 1965, AD621221

734. TI - Surveyor lunar roving vehicle, Phase I. Volume II - appendixes, Section I - concept evaluation and analysis final report
OS - General Motors Corp, Santa Barbara, CA, Jet Propulsion Lab, CA, Inst of Tech, Pasadena, Defense Research Labs
SO - NASA-CR-71261, TR64-26, Vol. II, Sect. I, 1964, 389 p

735. TI - Surveyor lunar roving vehicle, Phase I. Volume II - Appendixes, Section III - mechanical subsystems final report
OS - General Motors Corp, Santa Barbara, CA, Jet Propulsion Lab, CA, Inst of Tech, Pasadena, Defense Research Labs
SO - NASA-CR-71260, TR64-26, Vol. II, Sect. III, 1964, N66-19713

736. AU - Copeland, R.J.; Goodnight, F.H.; Pearson, R.O.
TI - Thermal performance test of the A-2H Apollo extravehicular mobility unit, Volume I
OS - Ling-temco-vought, Inc, Dallas, TX, Astronautics Div
SO - NASA-CR-65280, N66-21016, 1965

737. TI - Surveyor lunar roving vehicle, Phase I. Volume III - preliminary design and system description. Book I - system description and performance characteristics final technical report
OS - Bendix Corp, Ann Arbor, MI, Jet Propulsion Lab, CA Inst of Tech, Pasadena, Systems Div.
SO - NASA-CR-68625, BSR-903, Vol. III, Book 1, 1964, N66-13475

738. TI - Surveyor lunar roving vehicle, Phase I. Volume III - preliminary design and system description. Book 2 - validation of preliminary design final report
OS - Bendix Corp, Ann Arbor, MI, Bendix Systems Div.

SO - NASA-CR-69397, Vol. III, BSR-903, Vol. III, Book 2, N66-15483, 1964

739. AU - Stokes, L.S.; Macklem, W.C.
TI - Development of tires for new family of medium tactical truck
OS - United States Rubber Tire Co, Detroit, MI
SO - Final rept, phase 3, 1962, AD463853, 94 p

740. AU - San Juan, E.C.
TI - Apollo logistics support systems molab studies. Lunar shelter/rover conceptual design and evaluation
OS - Hayes International Corp, Birmingham, AL, Apollo Logistics Support Group
SO - NASA-CR-61049, N65-24015, 1964, 108 p

741. AU - Heckman, R.T.
TI - Visual requirements based on minimum obstacle avoidance distance
OS - Hayes International Corp, Birmingham, AL, Missile and Space Support Div.
SO - NASA-CR-61078, N65-28857, 1965, 24 p

742. AU - Jones, A.W.
TI - The problems of off-the-road mobility
OS - Institute for Defense Analyses, Arlington, VA, Research and Engineering Support Div.
SO - Jul 65, 66 p, AD468095

743. AU - Roesler, W.J.
TI - Automated guideway transit workshop on performance measures, evaluation techniques, and goals held in Washington, D.C. on August 25, 1976
OS - Johns Hopkins Univ, Laurel, MD, Applied Physics Lab. Urban Mass Transportation Administration, Washington, D.C. Office of Technology Development and Deployment
SO - Aug 76, 105 p, PB277046

744. AU - Kosevich, R.S.
TI - The BMP-equipped motorized rifle battalion in the offense
OS - Army Inst for Advanced Russian and East European Studies APO, N.Y.
SO - Student research rept., 1977, 36 p, ADA047784

745. TI - Durability testing of wheeled vehicles
OS - Army Test and Evaluation Command, Aberdeen Proving Ground, MD
SO - Rept. on materiel test procedure, AD717993, 1966, 17 p

Chapter V - Off road vehicles, tracked vehicles, or wheeled vehicles.

1. AU - Magnussen, G.L.; Aulin, B.H.
TI - Some off-road mobility studies in Sweden
SO - Sweden. Forsvarets forskningsanstalt. Avdelning 2. FOA 2. Rapport, A2536-97, Feb 1971, 11 p
LA - Eng
IT - military operation; computerized simulation; vehicles

2. AU - Beskin, I.A.
TI - Off-the-road transportation vehicles
OTI- Transport dlia bezdorozh'ia
SO - Moscow, Znanie, 1971, 48 p
LA - Rus
IT - snow cover effect; motor vehicles; all-terrain vehicles; tracked vehicles; air cushion vehicles; soil trafficability

3. AU - Nuttall, C.J., Jr.
TI - Ground-crawling: 1966 The state-of-the-art of designing off-road vehicles
SO - Army Waterways Experiment Station, Vicksburg, MS, 1967, 307 p
LA - Eng
IT - design criteria; topographic factors; vehicles; soil trafficability

4. AU - Thomas, I.A.
TI - Northern off-road transportation in the 70's
SO - American Society of Civil Engineers, Construction Division. Journal, vol. 101, no. CO3, Sept 1975, p 635-646
LA - Eng
IT - design; all-terrain vehicles; tracked vehicles; snow vehicles

5. AU - Bekker, M.G.
TI - Evolution of approach to off-road locomotion
SO - Journal of Terramechanics, vol. 4, no. 1, 1967, p 49-57
LA - Eng
IT - vehicles; traction

6. AU - Rickard, W.E.; Slaughter, C.W.
TI - Thaw and erosion on vehicular trails in permafrost landscapes
SO - Journal of Soil and Water Conservation, Report Number MP 738, vol. 28, no. 6, Nov-Dec 1973, p 263-266
LA - Eng
IT - permafrost transformation; soil erosion; ground thawing; ground ice; vehicles

7. AU - Radforth, J.R.
TI - Effects of off-road vehicle trails on the active layer in tundra
SO - National Research Council, Canada, Associate Committee on Geotechnical Research. Technical memorandum, No. 103, Dec 1971, p 48-49

LA - Eng
IT - active layer; tundra terrain; all-terrain vehicles; human factors; conservation

8. AU - Kjellin, P.
TI - Effects of snowmobiles and other off-road vehicles on vegetation
OTI - Snoskoterns och andra terrangmotorfordons inverkan pa vegetationen
SO - Motortrafik i terrang-forskningsrapporter om miljoeffekter, Solna, Sweden, Statens naturvardsverk, 1975, p 115-168
LA - Swe, Eng
IT - all-terrain vehicles; vegetation patterns; damage; snow cover effect

9. AU - Wastenson, L.
TI - Mapping off-the-road mobility of terrain vehicles
OTI - Kartering av framkomlighetsmojligheter for terrangfordon
SO - Uppsala. Universitet. Naturgeografiska institutionen. UNGI Rapport, No. 34, 1974, p 403-418
LA - Swe, Eng
IT - soil trafficability; motor vehicles; terrain identification; aerial photographs; photo interpretation

10. AU - Rickard, W.E.; Brown, J.
TI - Effects of vehicles on Arctic tundra
SO - Environmental Conservation, Report Number MP 737, Spring vol. 1, no. 1, 1974, p 55-62
LA - Eng
IT - tundra terrain; all-terrain vehicles; damage; ground thawing

11. AU - Brown, J.
TI - Ecological and environmental consequences of off-road traffic in northern regions
SO - Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Anchorage, AK, Bureau of Land Management, Aug 1976, p 40-53
LA - Eng
IT - human factors; thaw depth; soil trafficability; vegetation protection; damage; ground thawing; permafrost preservation; Arctic soils; tundra terrain; all-terrain vehicles; protection

12. AU - Denison, J.B.
TI - Off-road trucking winter operation
SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970. Proceedings. Vol. 2, Ottawa, Canada, 1971, p 181-188
LA - Eng
IT - snow roads; roads; construction; cargo; vehicles

13. AU - Harwood, T.A.
TI - Some considerations for off-road vehicles in northern conditions

SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970. Proceedings. Vol. 2, Ottawa, Canada, 1971, p 197-219
LA - Eng
IT - all-terrain vehicles; climatic factors; snow cover structure; muskeg; tracked vehicles

14. AU - Carpentier, M.
TI - Off-road vehicles-environmental considerations
SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970. Proceedings. Vol. 2, Ottawa, Canada, 1971, p 229-234
LA - Eng
IT - all-terrain vehicles; transportation

15. AU - Karafiath, L.L.
TI - Running gear-soil modeling for off-road vehicles
SO - International Conference on Terrain-Vehicle Systems, Detroit, Houghton, MI, June 2-6, 1975. Proceedings. Vol. 1, p 221-247
LA - Eng
IT - models; all-terrain vehicles; soil strength; tires; trafficability

16. AU - Boyer, J.J.
TI - Off-road vehicle
SO - U.S. Patent Office. Patent, May 10, 1977
LA - Eng
IT - all-terrain vehicles

17. AU - Karafiath, L.L.; Nowatzki, E.A.
TI - Soil mechanics for off-road vehicle engineering
SO - Series on Rock and Soil Mechanics, Clausthal, Germany, Trans Tech Publications, Vol. 2, No. 5, 1977, 515 p
LA - Eng
IT - soil mechanics; all-terrain vehicles; tracked vehicles; soil classification; soil trafficability; plastic properties; vehicle wheels

18. AU - Irwin, G.J.
TI - Snow classification in support of off-road vehicle technology
SO - Defense Research Establishment, Ottawa, Canada, DREO Rept., DREO-801, Feb 1979, 29 p
LA - Eng
IT - permafrost; cold weather tests; snow structure; metamorphism-snow; classifications; penetrometers; snow vehicles

19. AU - Radforth, J.R.
TI - Analysis of disturbance effects of operations of off-road vehicles on tundra
SO - Arctic Land Use Research Program, Canada, Report, ALUR-71-72-13, 1973, 77 p
LA - Eng
IT - revegetation; Canada - Northwest Territories - Mackenzie River

Delta; tracked vehicles; seismic surveys; environmental impact; tundra terrain; tundra vegetation

20. AU - Slaughter, C.W.
TI - Vehicle for the future
SO - Surface Protection Seminar, Anchorage, Alaska, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Anchorage, AK, Bureau of Land Management, Aug 1976, p 272-279
LA - Eng
IT - ground thawing; air cushion vehicles; Arctic soils; Arctic terrain; damage

21. AU - Walker, D.A.; Webber, P.J.; Everett, K.R.; Brown, J.
TI - Effects of low-pressure wheeled vehicles on plant communities and soils at Prudhoe Bay, Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 77-17, June 1977, 49 p
LA - Eng
IT - United States - Alaska - Prudhoe Bay; tundra terrain; damage; all-terrain vehicles; tires; tundra vegetation

22. AU - Doyle, G.R.,Jr.; Workman, G.H.
TI - Prediction of track tension when traversing an obstacle
SO - Society of Automotive Engineers, Technical Paper No. 790416
IT - off-road vehicles; military vehicles; computer simulation

23. AU - Man, G.K.; Kane, T.R.
TI - Steady turning of two-wheeled vehicles
SO - Society of Automotive Engineers, Publication No. SP-443
IT - motorcycles; vehicle dynamics; vehicle directional control; vehicle performance

24. AU - Samuel, A.J.; Loss, A.M.; Latson, D.M.
TI - M113A1/M113A1E1 Improved Cooling System
SO - Society of Automotive Engineers, Technical Paper No. 790412
IT - cooling; cooling systems; military vehicles; vehicle design; vehicle performance

25. AU - Hissong, Col.F., Jr.
TI - Army's experience on one & one quarter ton commercial trucks
SO - Society of Automotive Engineers, Technical Paper No. 770338
IT - military transportation; military vehicles; truck design; truck operation-truck performance

26. AU - Sloss, D.A., Jr.; Brady, P.M., Jr.
TI - Evaluation of the Landing Vehicle Assault (LVA) over-land performance
SO - Society of Automotive Engineers, Technical Paper No. 780127
IT - military vehicle mobility; models; amphibious vehicles; soil mechanics; mobility research

27. AU - Graumlich, A.J.; Kern, C.V.
TI - Battery powered small off-highway vehicles
SO - Society of Automotive Engineers, Technical Paper No. 740730
Also published in SAE Transactions, Vol. 83, 1974
IT - electric drives; electric propulsion; electric vehicles

28. AU - Richards, E.A.
TI - The economy and convenience of mechanical transmissions
SO - Society of Automotive Engineers, Technical Paper No. 760585
IT - transmissions

29. AU - Hearn, D.L.; Van Dorn, N.H.
TI - Modern transportation systems
SO - Society of Automotive Engineers, Technical Paper No. 740225
IT - transportation; rapid transit; systems engineering

30. AU - Duthion, L.; Doyotte, C.
TI - High speed train noise control
SO - Society of Automotive Engineers, Proceedings No. P-44
IT - ground effect machines; noise

31. AU - Wu, Y.
TI - A new pollution free tracked air cushion, air-driven rapid transit vehicle
SO - Society of Automotive Engineers, Proceedings No. P-44
IT - ground effect machines; rapid transit

32. AU - Wollam, J.M.
TI - Generalized tracked and wheeled vehicle automotive performance model
SO - Society of Automotive Engineers, Technical Paper No. 710628
IT - computer simulation; vehicle performance

33. AU - McGrath, L.R.
TI - Engineering features of the Terra-Tiger Vehicle
SO - Society of Automotive Engineers, Technical Paper No. 690575
IT - light utility vehicles

34. AU - Yarber, G.W.; Airheart, F.B.
TI - Controlled rotation of braked wheels
SO - Society of Automotive Engineers, Technical Paper No. 700113
IT - brakes

35. AU - Kirtland, J.A.; Andrus, D.C. Slabiak, W.
TI - An AC electric drive system as applied to a tracked vehicle
SO - Society of Automotive Engineers, Technical Paper No. 690442
IT - alternators; electric drives; military vehicles

36. AU - Rishavy, E.A.
TI - Special Purpose Car for commuting
SO - Society of Automotive Engineers, Technical Paper No. 690462

Also published in SAE Transactions, Vol. 78, 1969
IT - passenger car design

37. AU - Kress, J.H.
TI - Hydrostatic power-splitting transmissions for wheeled vehicles - classification and theory of operation
SO - Society of Automotive Engineers, Technical Paper No. 680549
Also published in SAE Transactions, Vol. 77, 1968
IT - hydrostatic transmissions

38. AU - Markow, E.G.
TI - Design for the remote control environment
SO - Society of Automotive Engineers, Technical Paper No. 680100
IT - lunar vehicles; simulators; spacecraft simulators; vehicle directional control

39. AU - Kalen, S.E.
TI - U.S. Army Human Factors Engineering Publications on military wheeled vehicles
SO - Society of Automotive Engineers, Technical Paper No. 670496
IT - human engineering; military vehicles

40. AU - Harrison, M. C.
TI - Rubber tire vs. steel wheel tradeoffs
SO - Society of Automotive Engineers, Technical Paper No. 740228
IT - axles; bus design; tires; electric vehicles

41. AU - Venkateshwar, B.
TI - A modular design concept for heavy duty transmissions of wheeled and tracked vehicles
SO - Society of Automotive Engineers, Technical Paper No. 780754
IT - design; transmissions; hydrostatic transmissions; vehicle design

42. AU - Zarotti, G.L.
TI - An Earth Moving Equipment Management Policy
SO - Society of Automotive Engineers, Technical Paper No. 790527
IT - hydrostatic transmissions; fluid power; hydraulic systems; hydraulic control; computer simulation; construction equipment operation; earthmoving equipment; fleet operation; management; standardization

43. AU - Siorek, R.W.
TI - Experimental investigation of effect of wheel travel on tracked vehicle mobility
SO - Society of Automotive Engineers, Technical Paper No. 730036
IT - military vehicle mobility; shock absorbers; springs; suspension systems; vehicle performance; wheels

44. AU - Singh, D.V.
TI - Stability of Rajdoot Scooter

SO - Society of Automotive Engineers, Technical Paper No. 710273
IT - motorcycles

45. AU - Terai, A.; Aoki, H.; Stanage, R.H.
TI - New design concept for Komatsu D455A Bulldozer and the actual results
SO - Society of Automotive Engineers, Technical Paper No. 790902
IT - construction equipment design; design; earthmoving equipment; off-road vehicles

46. AU - Clifford, M.
TI - How to select the right hydrostatic transmission circuit for hydraulically powered vehicles
SO - Society of Automotive Engineers, Technical Paper No. 790885
IT - antiskid devices; hydraulic systems; hydrostatic transmissions; vehicle design

47. AU - McKeon, C.E.; Turney, R.E.
TI - Ford TW-30 Tractor with Air-to-Air Intercooled Engine
SO - Society of Automotive Engineers, Technical Paper No. 790888
IT - off-road vehicles; air-cooled engines; engine cooling; engines; spark ignition engines

48. AU - de Lime, T.L., III
TI - Improved fire protection for off-highway equipment
SO - Society of Automotive Engineers, Technical Paper No. 790882
IT - electric control-electronic; off-road vehicles

49. AU - Clifford, M.
TI - An interesting and informative comparison of mobile hydrostatic wheel hub drives
SO - Society of Automotive Engineers, Technical Paper No. 790883
IT - hydraulic drives; hydraulic motors; hydraulic systems; hydromechanical transmissions; hydrostatic transmissions

50. AU - Edlund, R.
TI - An agriculture equipment manufacturer's approach to assure a clean hydraulic system
SO - Society of Automotive Engineers, Publication No. SP-447
IT - contamination; hydraulic fluids; off-road vehicles

51. AU - Bourdo, E.A., Jr.
TI - Forect oriented mechanization
SO - Society of Automotive Engineers, Technical Paper No. 790852
IT - off-road vehicles; product engineering; systems engineering; vehicle design; vehicle performance

52. AU - Jewett, J.W.
TI - Fire suppression systems
SO - Society of Automotive Engineers, Technical Paper No. 790779
IT - fire fighting; fire prevention

53. AU - Harris, J.D.; Leffelman, J.E.; Mann, R.L.
TI - Sound control on JI Case 90 Series Non-Cab Ag Tractors
SO - Society of Automotive Engineers, Technical Paper No. 790811
IT - agricultural machinery; off-road vehicles; oil consumption; soundproofing

54. AU - Cochran, T.E.
TI - The Caterpillar 980C Wheel Loader
SO - Society of Automotive Engineers, Technical Paper No. 790531
IT - construction equipment design; earthmoving equipment; vehicle design; off-road vehicles

55. AU - Strauss, A.M.
TI - Off-road stability of recreational vehicles
SO - Society of Automotive Engineers, Publication No. SP-443
IT - stability; off-road vehicles; all-terrain vehicles; vehicle dynamics

56. AU - Black, S.H.
TI - Simulation of off-road motorcycle ride dynamics
SO - Society of Automotive Engineers, Technical Paper No. 790261
IT - motorcycles; off-road vehicles; suspension systems; all-terrain vehicles; computer simulation

57. AU - Hurst, C.G.
TI - Development of the WABCO 353ft Twin Engine Elevating Scraper
SO - Society of Automotive Engineers, Technical Paper No. 780774
IT - construction equipment design; earthmoving equipment; mining equipment; off-road vehicles; product engineering

58. AU - Paul, D.S.
TI - MF 60 TDL
SO - Society of Automotive Engineers, Technical Paper No. 780741
IT - construction equipment design; off-road vehicles

59. AU - Coughran, S.J.
TI - Tree harvesting, now and in the future
SO - Society of Automotive Engineers, Technical Paper No. 780750
IT - construction equipment design; off-road vehicles

60. AU - Goertzen, G.
TI - Farmhand Cotton Module Mover
SO - Society of Automotive Engineers, Technical Paper No. 780725
IT - agricultural machinery; hauling; frames; off-road vehicles; power take-off

61. AU - Zarotti, G.L.; Nervegna, N.; Miotto, G.
TI - Hydrostatic Transmissions Controls - Is there space for optimization?
SO - Society of Automotive Engineers, Technical Paper No. 780465
IT - hydrostatic transmissions; hydraulic control; off-road vehicles

62. AU - Koutsky, L.J.
TI - Development of a suspension seat for earthmoving vehicles
SO - Society of Automotive Engineers, Technical Paper No. 780474
IT - seats; off-road vehicles; earthmoving equipment

63. AU - Ecklund, E. E.
TI - Methanol and other alternative fuels for off-highway mobile engines
SO - Society of Automotive Engineers, Technical Paper No. 780459
IT - alcohols; alternative fuels; off-road vehicles

64. AU - Cadou, P.B.; Bowser, F.J.
TI - The development of a scraper suspension system
SO - Society of Automotive Engineers, Technical Paper No. 780462
IT - ride evaluation; vehicle dynamics; suspension systems; off-road vehicles

65. AU - Cornell, C.R.
TI - Electronic Control Systems for mobile hydrostatics
SO - Society of Automotive Engineers, Technical Paper No. 770751
IT - hydrostatic transmissions; electric control-electronic; variable-ratio transmissions; transmissions; off-road vehicles; automatic control

66. AU - Adams, M.A.
TI - Sludge applicator equipped with high flotation tires
SO - Society of Automotive Engineers, Technical Paper No. 780740
IT - construction equipment design; off-road vehicles

67. AU - Von Fumetti, C.W.
TI - A new John Deere Four-Wheel Drive Loader
SO - Society of Automotive Engineers, Technical Paper No. 790532
IT - off-road vehicles; four wheel drive; construction equipment design; hydraulic systems; industrial equipment

68. AU - Pomroy, W.H.
TI - Improved Automatic Fire Protection Systems for off-highway mine vehicles
SO - Society of Automotive Engineers, Technical Paper No. 790880
IT - mining equipment; fire fighting; off-road vehicles; safety; fire prevention

69. AU - Barnes-Moss, H.W.; Crouch, A.R.; Ritchie, P.J.S.; Barnes-Moss, K.C.
TI - The design and development of a heavy duty, off-highway diesel engine family. Part 1 - engine concept and design. Part 2 - component testing and engine development
SO - Society of Automotive Engineers, Technical Paper No. 770775
IT - diesel engines; engine design; gears; off-road vehicles; power take-off

70. AU - Svendsen, D.J.
TI - JI Case Model 2870 Four-Wheel Drive Tractor
SO - Society of Automotive Engineers, Technical Paper No. 770708
IT - agricultural machinery; off-road vehicles

71. AU - Naft, M.H.
TI - Integration of component design for a 170-ton off-highway truck
SO - Society of Automotive Engineers, Technical Paper No. 770741
IT - vehicle design; off-road vehicles; mining equipment; suspension systems; frames; bodies; axles

72. AU - Tucker, L.E.
TI - Increased productivity of off-road vehicles through lighter working tools
SO - Society of Automotive Engineers, Technical Paper No. 760656
IT - construction equipment design

73. AU - Smith, D.W.
TI - Computer simulation of tractor ride for design evaluation
SO - Society of Automotive Engineers, Technical Paper No. 770704
IT - computer simulation; mathematical analysis; off-road vehicles; ride evaluation; vehicle dynamics; vibration

74. AU - Stevens, R.B.
TI - Fires on large off-road vehicles: the problem and solution
SO - Society of Automotive Engineers, Technical Paper No. 750561
IT - alloy steels; fire fighting; fire prevention; safety devices; vehicle safety

75. AU - Wheelock, W.K.
TI - The effect of automatic transmissions on military truck fuel economy
SO - Society of Automotive Engineers, Technical Paper No. 750216
IT - fuel consumption; military vehicles; automatic transmissions; truck design

76. AU - Van Loan, M.
TI - Impact of emissions from farm equipment and off-road heavy duty equipment on air pollution in California
SO - Society of Automotive Engineers, Technical Paper No. 730830
IT - agricultural machinery; air pollution; exhaust emissions

77. AU - Roesler, D.J.; Gaddy, L.D., Jr.
TI - Turbine-electric tractor-trailer test rig
SO - Society of Automotive Engineers, Technical Paper No. 730748
IT - electric vehicles; noise; truck tractors; turbine trucks

78. AU - Firth, D.
TI - Hydrostatic motors - direct or indirect?
SO - Society of Automotive Engineers, Technical Paper No. 730785
IT - hydrostatic transmissions

79. AU - Pules, M.L.; Eves, D.J.
TI - ATV Flotation Tires
SO - Society of Automotive Engineers, Technical Paper No. 720765
IT - all-terrain vehicles; amphibious vehicles; military vehicle mobility; ride evaluation; suspension systems; tires

80. AU - Rau, J.L.
TI - Hydrostatic steering designed for large off-highway vehicles
SO - Society of Automotive Engineers, Technical Paper No. 720803
IT - hydraulic control; power steering

81. AU - Klaas, R.N.
TI - Optimizing tire and machine relationships for maximum performance
SO - Society of Automotive Engineers, Technical Paper No. 720742
IT - tires

82. AU - Poore, B.B.; Wright, G.; Romig, B.E.
TI - Evaluation technique - turbine engines and transmissions for off-road vehicles
SO - Society of Automotive Engineers, Technical Paper No. 720759
IT - computer simulation; transmissions; turbine engine controls

83. AU - Kreb, H.B.; Thompson, J.E.
TI - Tractor cab cooling requirements
SO - Society of Automotive Engineers, Technical Paper No. 710692
IT - agricultural machinery; air conditioning

84. AU - Wong, J.Y.
TI - Optimization of the tractive performance of four-wheel-drive off-road vehicles
SO - Society of Automotive Engineers, Technical Paper No. 700723. Also published in SAE Transactions, Vol. 79, 1970
IT - four wheel drive

85. AU - Lins, W.F.; Hoogterp, F.B.; Pradko, F.
TI - Comparison of time domain and frequency domain analysis of off-road vehicles
SO - Society of Automotive Engineers, Technical Paper No. 690353
IT - computer simulation; military vehicles; vibration

86. AU - Mosher, R.S.
TI - Exploring the potential of a quadruped
SO - Society of Automotive Engineers, Technical Paper No. 690191. Also published in SAE Transactions, Vol. 78, 1969
IT - military vehicles; simulators; transporters

87. AU - Bartlett, G.E.; Belsdorf, M.R.; Deutschman, J.N.; Smith, R.L.
TI - On the prediction of off-road vehicle system mobility
SO - Society of Automotive Engineers, Technical Paper No. 690150. Also published in SAE Transactions, Vol. 78, 1969

IT - computer simulation; military vehicle mobility

88. AU - Howe, G.H.; Wells, C.G.
TI - The Air-Cell Suspension System - a solution to off-road mobility problems
SO - Society of Automotive Engineers, Technical Paper No. 690152
IT - computer simulation; military vehicles; suspension systems

89. AU - Forsyth, R.W.; Forsyth, J.P.
TI - Design and development of the TerraStar Marginal-Terrain Amphibian
SO - Society of Automotive Engineers, Technical Paper No. 680535. Also published in SAE Transactions, Vol. 77, 1968
IT - amphibious vehicles; military vehicles

90. AU - Douglas, O.; Burr, C.E.
TI - Potential of the Air Cushion Vehicle for off-road mobility
SO - Society of Automotive Engineers, Technical Paper No. 690148
IT - amphibious vehicles; ground effect machines; military vehicle mobility; mobility research

91. AU - Deeter, W. F.; Daigh, H.D.; Wallin, O.W. Jr.
SO - Society of Automotive Engineers, Technical Paper No. 680400. Also published in SAE Transactions, Vol, 77, 1968
IT - air pollution; exhaust emissions; fuel systems

92. AU - Rula, A.A.; Freitag, S.J.; Knight, S.J.
TI - Design of off-road vehicle test beds for remote area operation
SO - Society of Automotive Engineers, Technical Paper No. 670171
IT - military vehicle mobility; mobility research

93. AU - Eubanks, A.C.; Bernotas, R.J.
TI - Euclid R-X Truck - a new concept in off-road rear dump vehicles
SO - Society of Automotive Engineers, Technical Paper No. 670272
IT - construction equipment design

94. AU - Fort, D.M.
TI - Cost-effectiveness considerations in the design and employment of Army off-road vehicles.
SO - Society of Automotive Engineers, Technical Paper No. 670167
IT - military vehicles; systems engineering

95. AU - Liston, R.A.
TI - Correlation between predicted and actual off-road vehicle performance
SO - Society of Automotive Engineers, Technical Paper No 670170. Also published in SAE Transactions, Vol. 76
IT - military vehicle mobility; mobility research; systems engineering

96. AU - Fielding, P.G.
TI - Procedure for assessing the Air Cushion Vehicle with other off-road vehicles
SO - Society of Automotive Engineers, Publication No. SP-261. Also published in SAE Transactions, Vol. 74
IT - ground effect machines; military vehicles; operations research; systems engineering

97. AU - Bauer, F.
TI - Integrated Vehicular Communications system using the Ford Radio Road Alert
SO - Society of Automotive Engineers, Technical Paper No. 670113
IT - radio equipment; communication systems; traffic safety

98. AU - Kind, W.H.; Logan, J.S.
TI - Design of the M656 Cargo Truck
SO - Society of Automotive Engineers, Technical Paper No. 680101
IT - military vehicles; steering; suspension systems

99. AU - Wong, J.Y.
TI - Effect of vibrations on the performance of off-road vehicles
SO - Society of Automotive Engineers, Technical Paper No. 710224
IT - vehicle performance; vibration

100. AU - Johnson, G.A.
TI - Improved Fire Protection Systems for surface coal mining equipment
SO - Society of Automotive Engineers, Technical Paper No. 770744
IT - fire fighting; mining equipment; off-road vehicles; safety; vehicle safety; fire prevention

101. AU - Beck, R.R.
TI - A Cybernetically Coupled Research Vehicle
SO - Society of Automotive Engineers, Technical Paper No. 750217
IT - actuators; automatic control; military vehicle mobility

102. AU - Converse, V.G., III
TI - Testing of transmissions
SO - Society of Automotive Engineers, Technical Paper No. 730818
IT - nondestructive testing; quality control; test equipment; transmissions

103. AU - Harder, A.
TI - Airdraulic Seat System
SO - Society of Automotive Engineers, Technical Paper No. 720915
IT - Seats

104. AU - Herling, W.R.; Markow, E.G.
TI - Elliptical wheel concepts
SO - Society of Automotive Engineers, Technical Paper No. 690153
IT - military vehicle mobility; wheels

105. AU - Troll, W.C.
TI - Automotive Radar Brake
SO - Society of Automotive Engineers, Technical Paper No. 740095.
Also published in SAE Transactions, Vol. 83, 1974
IT - brakes; radar; safety; safety devices

Chapter VI - Snow strength measurement or soil strength measurement.

Chaper VI

1. AU - Lohnes, R.A.; Millan, A.; Handy, R.L.
TI - In-situ measurement of soil creep
SO - American Society of Civil Engineers, Soil Mechanics and Foundations Division. Journal, vol. 98, no. SM-1, Jan 1972, p 143-147
LA - Eng
IT - soil mechanics; shear stress; creep rate; slopes; measuring instruments; soil creep; shear strength; soil tests

2. AU - Abele, G.
TI - Techniques for measuring the strength characteristics of natural and processed snow
SO - Report Number MP 650, for presentation at the Symposium on Physical Methods of Ice and Snow Studies, Leningrad, Oct 1973. Unpublished manuscript, 1974
LA - Eng
IT - measurement; snow roads; snow strength; snow bearing strength; snow compaction; snow compression

3. AU - Weiss, S.J.
TI - Traction tests in snow at the Sierra Test Site, February-March 1952
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical note, N-107, March 1952, 5 p
LA - Eng
IT - tests; performance; snow strength; tracked vehicles; trafficability; traction

4. AU - Tsytovich, N.A.
TI - Instructions for determining the cohesive strength of frozen soil
SO - Translation of Instruktivnye ukazaniia po opredeleniiu sil stsepleniia merzlykh gruntov. Materialy po laboratornym issledovaniiam merzlykh gruntov, 1954, No. 2, p 162-175, Hanover, N.H., CRREL, 1970, Report Number TL 162, 17 p
LA - Eng, Rus
IT - frozen ground compression; cohesion; soil strength; measurement

5. AU - Ager, B.
TI - Measuring trafficability of snow
SO - International Society for Terrain-Vehicle Systems. Second International Conference, Aug 29-Sep 2, 1966, Quebec. Proceedings, Toronto, Univ. of Toronto Press, 1966, p 311-322
LA - Eng
IT - measurement; trafficability; snow strength

6. AU - Airhart, T.P.; Hirsch, T.J.; Coyle, H.M.
TI - Pile-soil system response in clay as a function of excess pore water pressure and other soil properties

SO - Texas A and M University, Texas Transportation Institute. Research report, Report is part of the larger project: Piling Behavior Research, Research Study Number 2-5-62-33, Sep 1967, No. 33-8, 37 p
LA - Eng
IT - pile foundations; soil strength; strain measurement; static loads; dynamic loads

7. AU - Abele, G.
TI - Snow mechanics aspects in snow sampling
SO - International Conference of Soil Mechanics and Foundation Engineering, 7th, Aug 29, 1969, Mexico, Specialty Session 1, Report Number MP 10, p 69-72, Melbourne, Australia, IGOSS, 1969
LA - Eng
IT - temperature factors; time factor; viscoelasticity; bearing strength; snow samplers; snow strength

8. AU - Smith, J.L.
TI - Elastic constants, strength and density of Greenland snow as determined from measurements of sonic wave velocity
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 167, Nov 1965, 18 p
LA - Eng
IT - snow density; snow strength; snow plasticity; elastic properties; acoustic measurement

9. AU - De Quervain, M.
TI - Strength properties of a snow cover and its measurement
SO - U.S. Army Cold Regions Research and Engineering Laboratory, (SIPRE), Report Number SIPRE TL 9, Nov 1951, 9 p, Translation from Geofisica pura e applicata, Vol. 18, p 178-191, 1950
LA - Eng, Ger
IT - snow strength; test equipment

10. AU - Khazin, B.G.; Goncharov, B.V.
TI - Use of ultrasound to estimate the strength of frozen soils during working
SO - Soil Mechanics and Foundation Engineering, March-April 1974 (Publ. Sep 1974, vol. 11, no. 2, p 122-125, Translated from Osnovaniia, fundamenty i mekhanika gruntov
LA - Eng, Rus
IT - acoustic measurement; soil freezing; soil strength

Chapter VII - Terrain vehicles or terrain analogs.

Chapter VII

1. AU - Dean, R.
TI - A new all-terrain undercarriage
SO - Society of Automotive Engineers, Technical Paper No. 790818
IT - all-terrain vehicles; construction equipment design; chassis design

2. AU - Westphal, J.A.
TI - Performance factors of aircraft fire fighting and rescue vehicle design
SO - Society of Automotive Engineers, Technical Paper No. 790774
IT - ground support equipment; vehicle design; truck design; fire fighting

3. AU - Chu, M.L.; Doyle, G.R.
TI - Nondeterministic analysis of a four-wheeled model vehicle traversing a simulated random terrain
SO - Society of Automotive Engineers, Technical Paper No. 780789
IT - mathematical analysis; mobility research; simulation; suspension systems; vehicle dynamics

4. AU - Jones, E.W.; Vaughn, W.F.; Bellew, J.D.
TI - Rough-terrain vehicle with synchronized transmission - a student design project
SO - Society of Automotive Engineers, Technical Paper No. 780243
IT - all-terrain vehicles; vehicle design; education; vehicle dynamics; vehicle performance

5. AU - Young, H.E.
TI - Engineering the complete forest concept
SO - Society of Automotive Engineers, Technical Paper No. 780749
IT - all-terrain vehicles; market research; mobility research; research; vibratory tools

6. AU - Stephens, J.; Shapton, W.
TI - Mini-Baja 1977 - an overview
SO - Society of Automotive Engineers, Technical Paper No. 780241
IT - all-terrain vehicles; creativity; design; human engineering; vehicle performance tests

7. AU - Leppert, A.M.
TI - Design of the winning Mini-Baja 77 vehicle
SO - Society of Automotive Engineers, Technical Paper No. 780242
IT - all-terrain vehicles; chassis design; creativity; design; education

8. AU - Dowgiallo E.J., Jr.; Snellings, I.R.; Blake, W.H.
TI - Battery powered jeep and van performance
SO - Society of Automotive Engineers, Technical Paper No. 770387
IT - batteries; electric equipment-electronic; electric vehicles; vehicle performance; vehicle performance tests

9. AU - Shryock, R.A.; Klahs, J.W.; Dieterich, D.A.
TI - System modeling techniques to improve the ride and vibration isolation characteristics of heavy equipment
SO - Society of Automotive Engineers, Proceedings No. P-71
IT - computer simulation; vehicle dynamics; vibration

10. AU - Wheeler, P.
TI - Tracked vehicle ride dynamics computer program
SO - Society of Automotive Engineers, Technical Paper No. 770048
IT - computer simulation; military vehicle mobility; mobility research; ride evaluation; vehicle dynamics

11. AU - Nodell, W.R.; Seely, J.H.
TI - A chronology and development status of the amphibious assault landing craft JEFF(A)
SO - Society of Automotive Engineers, Technical Paper No. 750717
IT - aerospace production; automatic control; design; steels; nondestructive testing; all-terrain vehicles; ground effect machines; military transportation; military vehicle mobility

12. AU - Hawks, K.H
TI - Hydrostatic drive all-terrain vehicle
SO - Society of Automotive Engineers, Technical Paper No. 750146
IT - all-terrain vehicles; hydraulic drives; hydrostatic transmissions; fluid power; hydraulic systems; vehicle design

13. AU - Warner, D.R.
TI - Three generations of Soviet wheeled military transport vehicles
SO - Society of Automotive Engineers, Technical Paper No. 750219
IT - all-terrain vehicles; military transportation; military vehicle mobility; military vehicles; truck design; truck operation-truck performance

14. AU - Morse, I.E.; Shapton, W.R.
TI - Rev-74-The University of Cincinnati ATV with independent suspension
SO - Society of Automotive Engineers, Technical Paper No. 750143
IT - all-terrain vehicles; education; suspension systems; hydrostatic transmissions; mufflers; vehicle design

15. AU - Kinney, F.L.; Harp, J.C.; Johnson, J.H.
TI - The design of a 4-wheel steer-4-wheel hydrostatic drive all-terrain vehicle for REV-74
SO - Society of Automotive Engineers, Technical Paper No. 750144
IT - all-terrain vehicles; hydraulic drives; hydrostatic transmissions; fluid power

16. AU - Davis, R.L.
TI - Suspension system modeling and structural loading

SO - Society of Automotive Engineers, Publication No. SP-392. Also published in SAE Transactions, Vol., 84, 1975
IT - structural analysis; suspension systems

17. AU - Grant, J.W.
TI - A technique for the validation of vehicle models using the road simulator
SO - Society of Automotive Engineers, Technical Paper No. 740945
IT - computer simulation; mathematical analysis; models; simulators

18. AU - Berenyi, T.; Pershing, R.L.; Romig, B.E.
TI - Vehicle mission simulation
SO - Society of Automotive Engineers, Technical Paper No. 730693
IT - agricultural machinery; computer simulation

19. AU - Williams, A.
TI - Model 200CA specialized high-speed tracklaying logging vehicle
SO - Society of Automotive Engineers, Technical Paper No. 730703
IT - logging equipment

20. AU - Paul, D.L.
TI - Power/weight ratio for tractor trailers
SO - Society of Automotive Engineers, Technical Paper No. 720916
IT - computer simulation; truck trailers; vehicle performance

21. AU - Schreiner, B.S.
TI - Results derived from soil-vehicle field test program of MEXA design vehicles
SO - Society of Automotive Engineers, Technical Paper No. 730037
IT - military vehicle mobility; soil mechanics

22. AU - King, M.W.
TI - Rubber propulsion tracks for all-terrain vehicles
SO - Society of Automotie Engineers, Technical Paper No. 720766
IT - all-terrain vehicles; amphibious vehicles

23. AU - Smith, C.K.; Sebesta, H.R.; Bose, J.E.
TI - Stabilization of a hydro-mechanical steering system
SO - Society of Automotive Engineers, Technical Paper No. 720791
IT - hydraulic systems; steering

24. AU - McHenry, R.R.
TI - Research in automobile dynamics - a computer simulation of general three-dimensional motions
SO - Society of Automotive Engineers, Technical Paper No. 710361. Also published in SAE Transactions, Vol. 80, 1971
IT - brakes; computer simulation; suspension systems; tires; vehicle dynamics

25. AU - Austrow, H.W.
TI - The M561 Cargo Truck - the Gama Goat

SO - Society of Automotive Engineers, Technical Paper No. 700015
IT - military vehicles; truck design

26. AU - Page, J.M.; Gustafson, M. L.
TI - Equipment for forest fertilization
SO - Society of Automotive Engineers, Technical Paper No. 690553
IT - agricultural machinery; helicopters

27. AU - Jespersen, H.A.
TI - New concept, small two-track all-terrain vehicle
SO - Society of Automotive Engineers, Technical Paper No. 690574
IT - hydrostatic transmissions; light utility vehicles

28. AU - Hurford, E.C.
TI - Doctrinal basis for high mobility vehicles in forward area Army units
SO - Society of Automotive Engineers, Technical Paper No. 700011
IT - military vehicle mobility

29. AU - Lins, W.F.; Dugoff, H.
TI - Motion simulation and its application to ride dynamics research
SO - Society of Automotive Engineers, Technical Paper No. 720003
IT - biomechanics; human engineering; ride evaluation; simulation; vehicle dynamics; vibration

30. AU - Garner, A.M.
TI - The design and operational experience of the TTI T4x ACV in northern Canada
SO - Society of Automotive Engineers, Technical Paper No. 710186
IT - amphibious vehicles; ground effect machines

31. AU - Howell, L.J.
TI - Power spectral density analysis of vehicle vibration using the NASTRAN Computer Program
SO - Society of Automotive Engineers, Proceedings No. P-52. Also published in SAE Transactions, Vol. 83, 1974
IT - vibration; computer applications; vehicle design; mathematical analysis

32. AU - Farrar, J.J.; Stattenfield, D.B.
TI - Performance and operational characteristics of high-powered diesel truck engines
SO - Society of Automotive Engineers, Technical Paper No. 730721
IT - diesel engines; fuel consumption; truck operation-truck performance

33. AU - Schubert, D.W.; Racca, R.H.
TI - Dynamic characteristics of an elastomeric-pneumatic isolator with orifice-type relaxation damping for vehicular suspension applications

SO - Society of Automotive Engineers, Technical Paper No. 740991
IT - all-terrain vehicles; damping; ride evaluation; vehicle dynamics

34. AU - Morman K.N., Jr.
TI - Non-linear model formulation for the static and dynamic analyses of front suspensions
SO - Society of Automotive Engineers, Technical Paper No. 770052
IT - suspension systems; mathematical analysis; vehicle dynamics; computer simulation

35. AU - McHenry, R.R.
TI - The astro spiral jump - an automobile stunt designed via computer simulation
SO - Society of Automotive Engineers, Technical Paper No. 760339. Also published in SAE Transactions, 1976
IT - computer simulation; highways; safety

36. AU - Tashjian, R.C.; Simmons, J.A.
TI - Marine Corps marginal terrain vehicle XM 759
SO - Society of Automotive Engineers, Technical Paper No. 690190
IT - military vehicles; tires

37. AU - Wong, R.E.; Galan, L.; Bradford, L.L.
TI - Design for the lunar environment
SO - Society of Automotive Engineers, Technical Paper No. 680099
IT - lunar vehicles

38. AU - Brannon, W.; David, R.H.; Hodges W., Jr.; Janowski, W.R.
TI - Design and development of the twister testbed
SO - Society of Automotive Engineers, Technical Paper No. 690149
IT - military vehicles; mobility research

39. AU - Bekker, M.G.; Butterworth, A.V.
TI - Terrain vehicle system evaluation
SO - Society of Automotive Engineers, Publication No. SP-261
IT - systems engineering; lunar vehicles; military vehicles

40. AU - McKenzie, R.D.; Howell, W. M.; Skaar, D.E.
TI - Computerized evaluation of driver-vehicle-terrain system
SO - Society of Automotive Engineers, Technical Paper No. 670168. Also published in SAE Transactions, Vol. 76
IT - computer simulation; military vehicles; mobility research; models; vibration

41. AU - Hoppe, C.H.
TI - Design for the rough-terrain environment
SO - Society of Automotive Engineers, Technical Paper No. 680098
IT - computer applications; military vehicle mobility; mobility research; vehicle dynamics

42. AU - Mikhailov, V.V.; Kocheulov, V.P.
TI - Use of air cushion vehicles in northern Canada
OTI - Primenenie transportnykh sredstv na vozdushnoi podushke na Kanadskom Severe
SO - Problemy Severa, Vol. 20, 1979, p 130-136
LA - Rus
IT - transportation; air cushion vehicles; all-terrain vehicles

43. AU - Glabina, N.K.; Puzanova, V.F.; Tikhonov, A.V.
TI - Discussion of scientific and economic problems of northern development
OTI - Obsuzhdenie aktual'nykh nauchnykh i khoziaistvennykh problem razvitiia severnykh raionov
SO - Problemy Severa, Vol. 20, 1979, p 137-146
LA - Rus
IT - economic development; all-terrain vehicles; transportation; research projects; air cushion vehicles; excavating equipment; environmental protection

44. AU - El'tes, M.I.; Matskov, L.N.; Vol'skii, S.G.
TI - Selecting propulsion gear for all-terrain vehicles
OTI - Vybor dvizhitelia dlia transportnykh sredstv vysokoi prokhodimosti
SO - Promyshlennyi Transport, No. 6, June 1979, p 6-7
LA - Rus
IT - transportation; all-terrain vehicles; tracked vehicles; air cushion vehicles; vehicle wheels; tires

45. AU - Shamburger, J.H.
TI - Terrain evaluation of a portion of the Fort Greely Automotive Test Course
SO - U.S. Waterways Experiment Station, Vicksburg, MS. Miscellaneous paper, No. 3-861, Dec 1966
LA - Eng
IT - classifications; mapping; active layer; snow depth; ice cover thickness; subarctic regions; terrain identification; topographic surveys; site surveys; tracked vehicles; trafficability

46. AU - Khlebnikov, A.M.; Krestovnikov, G.A.
TI - Peculiarities of motor transport under northern conditions
OTI - Osobennosti ispol'zovaniia avtotransportnykh sredstv v usloviiakh Severa
SO - Problemy Severa, Vol. 20, 1979, p 47-59
LA - Rus
IT - analysis-mathematics; motor vehicles; roads; permafrost beneath roads; trafficability; tracked vehicles; tires; rubber-ice friction; rubber-snow friction; swamps; all-terrain vehicles

47. AU - Korsak, V.K.
TI - Designing high capacity vehicles for cross-country travel in the North

OTI - Problemy razvitiia transportnykh sredstv vysokoi prokhodimosti dlia raionov Severa
SO - Problemy Severa, Vol. 20, 1979, p 59-73
LA - Rus
IT - motor vehicles; tracked vehicles; all-terrain vehicles; air cushion vehicles; tractors

48. TI - Arctic winter tests and evaluation, mid-winter stage, Kenworth Truck Model 953A
OS - Rymes, J.E.
SO - Arctic Petroleum Operators Association, Calgary, Alberta Report, APOA 21-2, Mar 1972
LA - Eng
IT - all-terrain vehicles; cold weather performance; motor vehicles; tracked vehicles; tires

49. TI - Arctic winter test and evaluation, late winter stage, Kenworth Truck Model 953A
OS - Rymes, J.E.
SO - Arctic Petroleum Operators Association, Calgary, Alta. Report, APOA 21-3, May 1972
LA - Eng
IT - all-terrain vehicles; tundra vegetation; damage; low temperature tests; cold weather performance

50. AU - Pikul', V.
TI - Flying on a wheel
OTI - Poletaem na kolese
SO - Izobretatel' i ratsionalizator, No. 6, 1979, p 26-28
LA - Rus
IT - all-terrain vehicles; air cushion vehicles

51. AU - Radforth, J.R.
TI - Analysis of disturbance effects of operations of off-road vehicles on tundra
SO - Canada. Arctic Land Use Research Program. Report, ALUR 71-72-13, 1973, 77 p
LA - Eng
IT - revegetation; Canada - Northwest Territories - Mackenzie River Delta; tracked vehicles; seismic surveys; environmental impact; tundra terrain; tundra vegetation

52. AU - Karafiath, L.L.; Nowatzki, E.A.
TI - Soil mechanics for off-road vehicle engineering
SO - Series on rock and soil mechanics, Clausthal, Germany, Trans Tech Publications, Vol. 2, No. 5, 1977, 515 p
LA - Eng
It - soil mechanics; all-terrain vehicles; tracked vehicles; soil classification; soil trafficability; plastic properties; vehicle wheels

53. AU - Yong, R.N.; Harrison, W.L.
TI - On vehicle mobility in snow-covered terrain. 1. Problem development and requirements for analysis
SO - Journal of Terramechanics, vol. 15, no. 4, Dec 1978, p 223-225
LA - Eng
IT - snow density; dynamic loads; snow cover effect; trafficability; snow cover structure; heat transfer; solar radiation; vehicles; interfaces

54. AU - Gorbeshko, M.V.; Romanov, V.V.
TI - Propelling devices for all-terrain vehicles
OTI - Dvizhitel' vnedorozhnogo transportnogo sredstva
SO - Promyshlennyi transport, No. 7, July 1979, p 7
LA - Rus
IT - all-terrain vehicles; propellers; tracked vehicles; trafficability; vehicle wheels; swamps; tundra soils

55. AU - Rymes, J.E.
TI - Preliminary Arctic engineering study of surface transport vehicles
SO - Arctic Petroleum Operators Association, Calgary, Alberta Report, APOA 7-1, Dec 1970
LA - Eng
IT - motor vehicles; tracked vehicles; all-terrain vehicles; winter maintenance; cold weather performance

56. AU - Wuebben, J.L.
TI - Hydraulic model investigation of drifting snow
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 78-16, June 1978, 29 p
LA - Eng
IT - hydraulic structures; snowdrifts; models; boundary value problems; snow fences

57. AU - Trantham, A.W.; Womble, C.C.; Williamson, R.
TI - Detailed combined limited technical/user test of Small Unit Support Vehicle (SUSV) BV206
SO - Distribution limited to U.S. Government agencies only, Aberdeen Proving Ground, MD, U.S. Army Test and Evaluation Command, 1978, 123 p
LA - Eng
IT - all-terrain vehicles; tracked vehicles; military operation; snow vehicles; cold weather tests

58. AU - Selivanov, I.I.
TI - New trucks of increased terrain trafficability designed in East Germany
OTI - Novye gruzovye avtomobili FRG povyshennoi prokhodimosti
SO - Avtomobil'naia promyshennost'. Oct 1977, No. 10, p 32-33
LA - Rus
IT - design; transportation; motor vehicles

59. AU - Karlstrom, L.
TI - Tracked vehicle "Bandvagn 206" driving test and force testing in bare and snow-covered mountain terrain
SO - U.S. Army Foreign Science and Technology Center. Translation, Nov 3, 1977, FSTC 734-77, 6 p, Translation of Forsvaretsmaterielverk, Huvudavdelningen for Hjulfordonsbyran. Research report dated 18 May 1976. Distribution limited to U.S. Government agencies only
LA - Eng, Swe
IT - mountains; snow cover; tracked vehicles; cold weather tests

60. AU - Abele, G.; Walker, D.A.; Brown, J.; Brewer, M.C.; Atwood, D.M.
TI - Effects of low ground pressure vehicle traffic on tundra at Lonely, Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 78-16, Sep 1978, 63 p
LA - Eng
IT - tundra vegetation; tires; soil trafficability; damage

61. TI - Requirement for identification and characterization of snow for mobility purposes
OS - International Society for Terrain-Vehicle Systems. Committee on Snow Mechanics Research Coordination
SO - McGill University, Montreal. Geotechnical Research Centre. Soil mechanics series, May 1978, No. 40. Prepared for the Sixth International Conference of the I.S.T.V.S., Vienna, Aug 1978
LA - Eng
IT - all-terrain vehicles; snow strength; trafficability; classifications; snow mechanics; snow vehicles

62. AU - Verzhbitskii, A.N.; Krestovnikov, G.A.
TI - Evaluating fuel consumption by all-terrain vehicles
OTI - Otsenka toplivnoi ekonomichnosti snegobolotokhodov
SO - Avtomobil'naia promyshlennost', No. 10, Oct 1977, p 8-10
LA - Rus
IT - swamps; snow cover; motor vehicles; all-terrain vehicles

63. AU - Abele, G.; Brown, J.; Brewer, M.C.; Atwood, D.M.
TI - Effects of low ground pressure vehicle traffic on tundra at Lonely, Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 77-31, Sep 1977, 32 p
LA - Eng
IT - patterned ground; soil moisture; air cushion vehicles; tracked vehicles; tundra vegetation; vehicle wheels; environmental impact; damage

64. AU - Hosoya, M.; Tsuchiya, K.; Yamamoto, R.
TI - Report on the operation of mechanical transport for the JARE South Pole Traverse 1968-69
SO - Japanese Antarctic Research Expedition. Scientific reports, Special issue No. 2, March 1971, p 204-261

LA - Eng
IT - expeditions-Jare South Pole Traverse-1968-1969; cargo operations-oversnow; fuel; low temperature effects-on equipment; sleds; transportation-oversnow; traverse operations; vehicles

65. AU - Radforth, J.R.; Burwash, A.L.
TI - Transportation
SO - Muskeg Research Conference, 15th, Edmonton, Alberta, 1973. Proceedings. Edited by N.W. Radforth and C.O. Brawner, University of Toronto Press, 1977, p 249-263
LA - Eng
IT - thermal effects; construction; muskeg; transportation; all-terrain vehicles; environmental impact; trafficability; arctic vegetation

66. TI - Symposium on tracks or wheels, Calgary, Alberta, June 3-4, 1976
OS - Canadian Society for Terrain Vehicle Systems, 1977
LA - Eng
IT - all-terrain vehicles; vehicle wheels; tracked vehicles; snow roads

67. AU - Boughton, J.C.
TI - Arctic requirements of off-highway vehicles
SO - Symposium on tracks or wheels, Calgary, Alberta, June 3-4, 1976, VII/1-VII/17, Calgary, Canadian Society for Terrain Vehicle Systems, 1977
LA - Eng
IT - all-terrain vehicles; military operation; logistics; cost analysis

68. TI - Industrial vehicles corporation's "Bolzano Series" features integral traction, high maneuverability
OTI - La "Gamma Bolzano" dell'Iveco: veicoli a trazione integrale ad elevata manovrabilita
SO - Strade e traffico, No. 262, Nov-Dec 1977, p 4-7
LA - Ita
IT - winter maintenance; road maintenance; snow removal equipment; all-terrain vehicles

69. AU - Abele, G.; Brown, J.
TI - Arctic transportation: operational and environmental evaluation of an air cushion vehicle in northern Alaska
SO - Journal of Pressure Vessel Technology, Report Number MP 985, vol. 99, no. 1, Feb 1977, p 176-192
LA - Eng
IT - environmental impact; tundra vegetation; damage; air cushion vehicles; transportation; trafficability; arctic terrain; environments

70. AU - Cooper, D.W.; Mueller, R.A.; Schertler, R.J.
TI - Remote profiling of lake ice using an S-band short-pulse radar aboard an all-terrain vehicle
SO - Radio Science, vol. 11, no. 4, Apr 1976, p 375-381
LA - Eng
IT - airborne radar; accuracy; all-terrain vehicles; profiles; lake ice; ice cover thickness; radar echoes

71. AU - Andersson, B.
TI - Development of tracked vehicle 206
OTI - Utveckling av bandvagn 206
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM meddelande, No. 22, 1977, p 61-74
LA - Swe, Eng
IT - tracked vehicles; muskeg; all-terrain vehicles; bearing capacity

72. AU - Uspenskii, I.N.; Savinov, B.V.
TI - Torque variations in all-terrain vehicle transmissions
OTI - Krutil'nye kolebaniia v transmissii vezdekhodnykh mashin
SO - Gorkii. Politekhnicheskii Institut. Trudy, vol. 25, no. 9, 1969, p 51-56
LA - Rus
IT - analysis-mathematics; all-terrain vehicles

73. TI - SFM Muskeg Conference, Oct 6-10, 1976
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, 98 p
LA - Swe, Eng
IT - meetings; Sweden; muskeg; organic soils; soil trafficability; all-terrain vehicles

74. AU - Scholander, J.
TI - Field tests on organic terrain with an articulated tracked vehicle
OTI - Korforsok med bandvagn 202 a pa myrmark
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, p 47-52
LA - Swe, Eng
IT - organic soils; soil trafficability; roots; muskeg; all-terrain vehicles; arctic vegetation; damage

75. AU - Hag, B.
TI - Regulations for driving in terrain with terrain and motor vehicles
OTI - Foreskrifter for korning i terrang med terrangfordon och motorfordon
SO - Sweden. Samarbetsorganisationen for fordon-markforskning. SFM Meddelande, No. 22, 1977, p 57-60
LA - Swe, Eng
IT - Sweden; all-terrain vehicles; arctic terrain; muskeg; soil trafficability

76. AU - Adzhiev, M.E.
TI - Boundaries of the Arctic region
OTI - Razmyshleniia o granitsakh Severa
SO - Priroda, No. 10, Oct 1976, p 29-41
LA - Rus
IT - mapping; cold weather construction; all-terrain vehicles; Arctic regions; climatic factors; permafrost

77. TI - Proceedings. Vol. 1. International Conference on Terrain-Vehicle Systems, 5th, Detroit, Houghton, Michigan, June 2-6, 1975, 288 p
LA - Eng
IT - all-terrain vehicles; soil strength; trafficability

78. AU - Karafiath, L.L.
TI - Running gear-soil modeling for off-road vehicles
SO - International Conference on Terrain-Vehicle Systems, Detroit, Houghton, MI, June 2-6, 1975. Proceedings. Vol. 1, p 221-247
LA - Eng
IT - models; all-terrain vehicles; soil strength; tires; trafficability

79. AU - Barkhtanov, L.V.
TI - Practicality of all-terrain vehicles
OTI - K voprosu o prokhodimosti vezdekhodnykh mashin
SO - Gorkii. Politekhnicheskii Institut. Trudy, vol. 25, no. 9, 1969, p 46-50
LA - Rus
IT - analysis vehicles-mathematics; computer simulation; trafficability; all-terrain

80. AU - Hanamoto, B.
TI - Effect of snow cover on obstable performance of vehicles
SO - Journal of Terramechanics, Report Number MP 933, vol. 13, no. 3, 1976, p 121-140
LA - Eng
IT - tracked vehicles; snow cover effect; cold weather performance; topographic features; trafficability; snow vehicles

81. AU - Hibler, W.D., III
TI - Sea ice terrain and mobility model
SO - Army Science Conference, West Point, June 1974. Proceedings. Vol. 1, p 447-454
LA - Eng
IT - ice surface; ice pressure; air cushion vehicles; sea ice; pack ice; trafficability

82. AU - Zlobin, G.P.; Smigel'skii, S.P.
TI - Hydrofoil and air cushion vessels
OTI - Suda na podvodnykh kryl'iakh i vozdushnoi podushke

SO - Leningrad, Sudostroenie, 1976, 263 p (Pertinent p 138-262),
LA - Rus
IT - hydrofoil craft; all-terrain vehicles; air cushion vehicles

83. AU - Dibbern, J.S.
TI - Oversnow and adverse-terrain vehicles-foreign
OS - U.S. Army Foreign Science and Technology Center
SO - Washington, DC, U.S. Defense Intelligence Agency, Sep 1976, 108 p
LA - Eng
IT - design criteria; cold weather operation; all-terrain vehicles; military transportation; snow vehicles

84. AU - Agranat, G.A.; Andreeva, E.N.
TI - Study, protection, and utilization of the natural environment in Alaska and the Canadian North
SO - Problems of the North, No. 18, 1973, (Pub. Dec 76), p 339-367
LA - Eng, Rus
IT - permafrost preservation; swamps; ecology; subarctic soils; forest tundra; subarctic vegetation; human factors; transportation; air cushion vehicles; all-terrain vehicles; environments

85. AU - Clark, E.F.; Slaughter, C.W.
TI - Transportation for Subarctic research
SO - Presented at the 24th Alaska Science Conference, College, Alaska, Aug 1973. Fairbanks, University of Alaska, 1974
LA - Eng
IT - transportation; subarctic terrain; all-terrain vehicles

86. AU - Abele, G.; Parrott, W.H.
TI - Some effects of air cushion vehicle operations on deep snow
SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972. Proceedings. Vol. 2, Report Number MP 887, Stockholm, Sweden, 1972, p 214-241
LA - Eng
IT - surface properties; tests; air cushion vehicles; snow depth; erosion

87. AU - Harwood, T.A.
TI - Some considerations for off-road vehicles in northern conditions
SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970, Proceedings. Vol. 2, Ottawa, Canada, 1971, p 197-219
LA - Eng
IT - all-terrain vehicles; climatic factors; snow cover structure; muskeg; tracked vehicles

88. TI - Proceedings. Vol. 2. International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972
SO - Stockholm, Sweden, 1972, 258 p
LA - Eng
IT - snow depth; snow strength; tests; air cushion vehicles;

trafficability; all-terrain vehicles

89. AU - Carpentier, M.
TI - Off-road vehicles - environmental considerations
SO - Arctic Transportation Conference, Yellowknife, NWT, Dec 1970, Proceedings. Vol. 2, Ottawa, Canada, 1971, p 229-234
LA - Eng
IT - all-terrain vehicles; transportation

90. AU - Slaughter, C.W.
TI - Vehicle for the future
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Anchorage, AK, Bureau of Land Management, Aug 1976, p 272-279
LA - Eng
IT - ground thawing; air cushion vehicles; arctic soils; arctic terrain; damage

91. AU - Abele, G.
TI - Introduction to air cushion vehicles
SO - Presented at the American Society of Agricultural Engineers, Winter Meeting, 1974, Chicago, IL. U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, 1974
LA - Eng
IT - air cushion vehicles; all-terrain vehicles

92. AU - Harrison, R.T.
TI - ORV's: environmental effects
SO - Arctic Soils Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 256-267
LA - Eng
IT - snow vehicles; pollution; damage; all-terrain vehicles

93. AU - Engen, D.L.
TI - Military maneuvers and surface disturbance
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 91-94
LA - Eng
IT - military operation; military transportation; arctic terrain; protection; all-terrain vehicles

94. AU - Schindler, J.F.
TI - Transportation during exploration of Naval Petroleum Reserve No. 4
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 95-101
LA - Eng
IT - all-terrain vehicles; logistics; tractors; sleds; arctic terrain; transportation; preserving

95. AU - Hall, G.A.
TI - ORV use on state lands
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 56-59
LA - Eng
IT - ecosystems; arctic soils; all-terrain vehicles; tundra terrain; protection

96. AU - Sexton, M.L.
TI - Vehicles and roads for petroleum exploration
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 80-81
LA - Eng
IT - snow roads; arctic terrain; all-terrain vehicles; petroleum transportation

97. AU - Evans, M.N.
TI - Proceedings of the Surface Protection Seminar. Theme: travel and transportation practices to prevent surface destruction in the northern environment, January 19-22, 1976, Anchorage, Alaska
SO - Bureau of Land Management, Anchorage, AK, Aug 1976, 298 p
LA - Eng
IT - fire protection; damage; meetings; arctic terrain; tundra terrain; protection; permafrost preservation; all-terrain vehicles; vegetation; arctic soils

98. AU - Bocharov, N.F.; Gusev, V.I.; Semenov, V.M.; Solov'ev, V.I.; Filiushkin, A.V.
TI - Transportation vehicles on highly elastic propelling devices
OTI - Transportnye sredstva na vysokoelastichnykh dvizhiteliakh
SO - Moscow, Mashinostroenie, 1974, 208 p
LA - Rus
IT - motor vehicles; all-terrain vehicles; tracked vehicles; vehicle wheels

99. TI - All-terrain vehicles symposium
SO - Oilweek, July 12, vol. 27, no. 22, 1976, p 10-11
LA - Eng
IT - meetings; air cushion vehicles; snow roads

100. AU - Rush, E.S.; Schreiner, B.G.
TI - Trafficability tests on unconfined organic terrain (muskeg); Summer 1963 tests
SO - U.S. Army Waterways Experiment Station, Vicksburg, MS. Technical Report, No. 3-744, Nov 1966, 44 p
LA - Eng
IT - soil trafficability; all-terrain vehicles; muskeg; permafrost depth

101. AU - Hanamoto, B.
TI - Effects of variation in drawbar hitch location on vehicle performance
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 237, Sep 1975, 16 p
LA - Eng
IT - all-terrain vehicles; snow cover effect; noncohesive soils

102. AU - Bekker, M.G.
TI - Russian approach to terrain-vehicle systems. Final report
SO - Delco Electronics Division, GMC, Goleta, CA, Aug 1971, 386 p
LA - Eng
IT - all-terrain vehicles; bibliographies

103. AU - Aslanov, G.A.
TI - Organization of subglacial fishing using snow vehicles
OTI - Organizatsiia podlednogo lova s ispol'zovaniem snegokhodov
SO - Rybnoe Khoziaistvo, No. 2, Feb 1976, p 53-54
LA - Rus
IT - trafficability; icebound rivers; all-terrain vehicles; tracked vehicles; snow depth; snow vehicles; ice drills

104. AU - Anderson, A.D.
TI - Arctic off-highway transportation
SO - Civil Engineering, vol. 46, no. 3, Mar 1976, p 72-75
LA - Eng
IT - transportation; tires; cold weather operation; permafrost; tundra terrain; air cushion vehicles; all-terrain vehicles

105. AU - Radforth, J.R.
TI - Long term effects of summer traffic by tracked vehicles on tundra
SO - Task Force on Northern Oil Development. Environmental-Social Committee. Report, No. 73-22, 1973, 60 p
LA - Eng
IT - aerial photography; tundra terrain; trafficability; tires; tundra vegetation; thermokarst; vehicle wheels; damage; long range forecasting

106. AU - Riabov, V.P.; Shubin, M.A.; Erastov, A.IA.
TI - Access roads built along railroad tracks
OTI - Pritrassovye i pod'ezdnye avtomobil'nye dorogi
SO - Moscow, Transport, 1975, 101 p
LA - Rus
IT - railroad tracks; roads; motor vehicles; roadbeds; permafrost beneath roads; taiga terrain; mountains; snow roads; ice roads

107. AU - Frost, R.E.; Johnson, P.L.; Leighty, R.D.; Anderson, V.H.; Poulin, A.O.; Rinker, J.N.

TI - Mobility environmental research study: a quantitative method for describing terrain for ground mobility. Vol. VI. Selected air-photo patterns of terrain features
SO - U.S. Army Cold Regions Research and Engineering Laboratory, U.S. Army Waterways Experiment Station, Vicksburg, MS. Technical Report No. 3-726, May 1966
LA - Eng
IT - Thailand; terrain analysis; aerial photography; photo interpretation; vegetation patterns

108. AU - Hibler, W.D., III; Ackley, S.F.
TI - Height variation along sea ice pressure ridges and the probability of finding "holes" for vehicle crossings
SO - Journal of Terramechanics. vol. 12, no. 3/4, Dec 1975, p 191-199
LA - Eng
IT - sea ice; pressure ridges; air cushion vehicles; ice crossings; height finding

109. AU - Stepanov, A.P.
TI - Amphibian motor vehicles
OTI - Plavaiushchie mashiny
SO - Moscow, DOSAAF, 1975, 189 p
LA - Rus
IT - ice navigation; all-terrain vehicles

110. AU - Fomin, A.E.; Gabelaia, R.D.; Kondrakhin, A.I.
TI - Building pipelines in swamp without log roads
OTI - Prokladka truboprovoda na zabolochennykh uchastkakh bez ustroistva lezhnevykh dorog
SO - Stroitel'stvo truboprovodov, No. 11, Nov 1975, p 31-32
LA - Rus
IT - swamps; pipe laying; all-terrain vehicles

111. AU - Hibler, W.D., III; Ackley, S.F.
TI - Sea ice terrain model and its application to surface vehicle trafficability
SO - Journal of Terramechanics, vol. 12, no. 3/4, Dec 1975, p 171-190
LA - Eng
IT - sea ice; pressure ridges; air cushion vehicles; trafficability; models; terrain analysis

112. AU - Klimenko, A.I.
TI - Land transportation of the future
OTI - Nazemnyi transport budushchego
SO - Moskovskii rabochii, 1975, 120 p
LA - Rus
IT - all-terrain vehicles; air cushion vehicles; snow vehicles

113. AU - Chudakov, D.A.; Skotnikov, V.A.; Kolosha, V.G.
TI - Properties and trafficability indices of swamp tractors
OTI - Svoistva i pokazateli prokhodimosti bolotokhodnykh traktorov

SO - Mekhanizatsiia i elektrifikatsiia sotsialisticheskogo sel'skogo khoziaistva, No. 8, Aug 1975, p 36-38
LA - Rus
IT - trafficability; all-terrain vehicles; swamps

114. AU - Wastenson, L.
TI - Mapping off-the-road mobility of terrain vehicles
OTI - Kartering av framkomlighetsmojligheter for terrangfordon
SO - Uppsala. Universitet. Naturgeografiska institutionen. UNGI rapport, No. 34, 1974, p 403-418
LA - Swe, Eng
IT - soil trafficability; motor vehicles; terrain identification; aerial photographs; photointerpretation

115. AU - Fowler, H.S.
TI - Air cushion vehicle as a load-spreading transport device
SO - Journal of Terramechanics, vol. 12, no. 2, Sept 1975, p 43-53
LA - Eng
IT - air cushion vehicles; all-terrain vehicles; topographic effects

116. AU - Kjellin, P.
TI - Effects of snowmobiles and other off-road vehicles on vegetation
OTI - Snoskoterns och andra terrangmotorfordons inverkan pa vegetationen
SO - Motortrafic i terrang-forskningsrapporter om miljoeffekter, In Swedish with English summary and captions. Solna, Sweden, Statens naturvardsverk, 1975, p 115-168
LA - Swe, Eng
IT - all-terrain vehicles; vegetation patterns; damage; snow cover effect

117. AU - Thomas, I.A.
TI - Northern off-road transportation in the 70's
SO - American Society of Civil Engineers, Construction Division. Journal, vol. 101, CO3, Sept 1975, p 635-646
LA - Eng
IT - design; all-terrain vehicles; tracked vehicles; snow vehicles

118. AU - Rickard, W.E.; Brown, J.
TI - Effects of vehicles on Arctic tundra
SO - Environmental Conservation, vol. 1, no. 1, Spring 1974, p 55-62
LA - Eng
IT - tundra terrain; all-terrain vehicles; damage; ground thawing

119. AU - Wismer, R.D.; Freitag, D.R.; Schafer, R.L.
TI - Application of similitude to soil-machine systems
SO - Prepared for presentation at the Sixth Seminar on the Similitude of Soil Machine Systems, Feb 4-5, 1975, USDA National Tillage Machinery Laboratory. Report Number MP 829, 37 p, St. Joseph, MI, American Society of Agricultural Engineers, 1975

LA - Eng
IT - models; all-terrain vehicles; tires; traction; earth handling equipment; soil structure

120. AU - Radforth, J.R.; Korpijaakko, E.; Radforth, N.W.
TI - Rut damage on frozen organic terrain
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 102, Jan 1972, p 21-26
LA - Eng, Fre
IT - permafrost beneath roads; muskeg; damage; trafficability; tundra soils; tundra vegetation; tracked vehicles

121. AU - Murchison, H.G.
TI - Preliminary studies of an air cushion vehicle for logging in Eastern Canada
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 102, Jan 1972, p 123-146
LA - Eng, Fre
IT - Arctic terrain; muskeg; air cushion vehicles

122. AU - Thomas, I.A.
TI - More science, less art in tracked vehicles
SO - Engineering Journal, vol. 58, no. 1, March/April 1975, p 6-10
LA - Eng
IT - cold weather operation; tracked vehicles; all-terrain vehicles

123. AU - Gatto, L.W.; Anderson, D.M.
TI - Alaskan thermokarst terrain and possible Martian analog
SO - Science, vol. 188, no. 4185, April 18, 1974, p 255-257
LA - Eng
IT - remote sensing; thermokarst; Mars-planet; ground ice

124. TI - Greening of construction: equipment whips its biggest-and toughest-challenge on the Trans-Alaska pipeline
SO - Construction Equipment, vol. 51, no. 4, April 1975, p 49-53, 56-59, 62-63
LA - Eng
IT - permafrost preservation; drills; vehicle wheels; pipe laying; cold weather construction; construction equipment; all-terrain vehicles; snow roads; winter maintenance

125. AU - Ives, J.D.
TI - Impact of motor vehicles on the tundra environment
SO - Arctic and Alpine Environments, edited by J.D. Ives and R.G. Barry, London, Methuen and Co., 1974, p 907-910
LA - Eng
IT - tundra; all-terrain vehicles; damage

126. TI - Easy glider of the Arctic
SO - North/nord, vol. 20, no. 3, May-June 1972, p 13-15
LA - Eng
IT - Arctic terrain; air cushion vehicles; tundra terrain

127. AU - Beattie, C.A.; Erickson, D.; Martin, A.; Gray, D.M.
TI - Energy budget studies in the Arctic over areas subjected to different levels of vehicular activity-1972-1973
SO - Task Force on Northern Oil Development. Environmental-Social Committee. Ottawa, Information Canada, 1973, Report 73-23, 32 p
LA - Eng
IT - all-terrain vehicles; heat transfer; solar radiation; heat balance; radiation balance; tundra soils; damage; environmental impact

128. AU - Radforth, J.R.
TI - Immediate effects of wheeled vehicle traffic on tundra during the summer
SO - Canada. Department of Indian Affairs and Northern Development. IAND publication, No. QS-3033-000-EE-A1, 1973, 32 p
LA - Eng
IT - tires; long range forecasting; Canada-Northwest Territories-Richards Island; tundra terrain; tundra vegetation; vehicle wheels; trafficablity

129. AU - Brooks, E.N., Jr.; Bernitt, C.L.
TI - Twin-cushion surface effect vehicle
SO - Canadian Aeronautics and Space Journal, vol. 20, no. 8, Oct 1974, p 417-424
LA - Eng
IT - air cushion vehicles; experimental data; all-terrain vehicles; pressure ridges

130. AU - Wilson, N.E.
TI - Stress distribution in organic soils under traffic loading
SO - Canadian Peat Symposium. Proceedings, Sherbrooke University, 1972, 17 p
LA - Eng
IT - peat; deformation; shear strength; organic soils; trafficability; all-terrain vehicles; soil strength; dynamic loads

131. AU - Ilon, B.E.
TI - Vehicle for use on land, in water, on ice and in snow
SO - U.S. Patent Office. Patent, June 4, 1974, 8 p
LA - Eng
IT - all-terrain vehicles; snow vehicles; tracked vehicles

132. AU - Liston, R.A.
TI - Air cushion vehicle: Key to an Alaskan transportation system?
SO - High Speed Ground Transportation Journal, vol. 7, no. 2, 1973, p 247-263

LA - Eng
IT - air cushion vehicles; all-terrain vehicles; transportation

133. AU - Hosoya, M.
TI - Ability of KD-60 snow car and its problems
SO - Polar News, vol. 5, no. 1, July 1969, p 7-12
LA - Jap
IT - vehicles-tractors; transportation-oversnow; sleds; snow vehicles; tracked vehicles; design criteria; cold weather operation; sleds

134. AU - Rickard, W.E.; Slaughter, C.W.
TI - Thaw and erosion on vehicular trails in permafrost landscapes
SO - Journal of Soil and Water Conservation, vol. 26, no. 8, Nov-Dec 1973, p 263-266
LA - Eng
IT - permafrost transformation; soil erosion; ground thawing; ground ice; vehicles

135. AU - Agranat, G.A.; Andreeva, E.N.
TI - Studies, preservation, and utilization of natural environments in northern regions abroad
OTI - Izuchenie, okhrana i ispol'zovanie prirodnoi sredy na Zarubezhnom Severe
SO - Problemy Severa, Vol. 18, 1973, p 196-212
LA - Rus
IT - permafrost preservation; swamps; ecology; subarctic soils; forest tundra; subarctic vegetation; human factors; transportation; air cushion vehicles; all-terrain vehicles; environments

136. AU - Mock, S.J.; LaGarde, V.; Tucker, W.B.
TI - Arctic terrain characteristics data bank
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 247, March 1974, 47 p
LA - Eng
IT - arctic terrain; data processing; sea ice; ice navigation; aerial photography; air cushion vehicles

137. AU - Thomas, M.W.
TI - Ground transportation for polar operations - 16-wheel Low-Ground-Pressure Vehicle (LGPV-16)
SO - U.S. Naval Construction Battalion Center, Port Hueneme, CA, Civil Engineering Laboratory. Technical note, N-1422, Jan 1976, 29 p
LA - Eng
IT - vehicles; transportation-oversnow; Antarctica-McMurdo Station; snow vehicles; cold weather tests; tires; design criteria

138. AU - Brown, J.
TI - Ecological and environmental consequences of off-road traffic in northern regions

SO - Surface Protection Seminar, Anchorage, AL, Jan 19-22, 1976. Proceedings. Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 40-53
LA - Eng
IT - human factors; thaw depth; soil trafficability; vegetation protection; damage; ground thawing; permafrost preservation; arctic soils; tundra terrain; all-terrain vehicles; protection

139. AU - Morris, E.C.; Mutch, T.A.; Holt, H.E.
TI - Atlas of geological features in the Dry Valleys of South Victoria Land, Antarctica; possible analogs of Martian surface features
SO - Interagency Report: Astrogeology, No. 52, Sept 1972, 156 p
LA - Eng
IT - geology; geomorphology; photographs

140. AU - Abele, G.
TI - Hovercraft ground contact directional control devices
SO - International Hovering Craft, Hydrofoil and Advanced Transit Systems Conference, 2nd, Amsterdam, May 17-20, 1976. Proceedings, Kalerglic Publications, London, 1976, p 51-59,
LA - Eng
IT - tundra terrain; impact; all-terrain vehicles; air cushion vehicles; vehicle wheels

141. AU - Liston, R.A.
TI - Air cushion vehicle operations in Arctic and Subarctic terrain
SO - International Automotive Engineering Congress, Detroit, MI, January 8-12, 1973, Society of Automotive Engineers, Inc., New York, 1973, 14 p
LA - Eng
IT - air cushion vehicles; cold weather operation

142. AU - Walker, D.A.; Webber, P.J.; Everett, K.R.; Brown, J.
TI - Effects of low-pressure wheeled vehicle on plant communities and soils at Prudhoe Bay, Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 77-17, June 1977, 49 p
LA - Eng
IT - United States - Alaska-Prudhoe Bay; tundra terrain; damage; all-terrain vehicles; tires; tundra vegetation

143. AU - Belinskii, A.IU.
TI - Passenger transport in northern population resettlement systems
OTI - Passazhirskii transport v sistemakh rasseleniia Severa
SO - Problemy Severa, Vol. 20, 1979, p 98-105
LA - Rus
IT - transportation; airplanes; air cushion vehicles; motor vehicles; all-terrain vehicles; swamps; ice navigation; snow roads; ice roads

144. AU - Gay, R.R.; Harju, W.P.
TI - A statistical approach of determining cross-country speed
SO - Society of Automotive Engineers, Technical Paper No. 690151
IT - military vehicle mobility; statistics

145. AU - Dykins, J.E.; Coffin, R.C.; Moser, E.H.
TI - Squaw Valley Winter Trails, 1957-1958. Compacted-snow packing lot study
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical Report, R-9, Sept 1958, 36 p
LA - Eng
IT - snow compaction; trafficability; maintenance

146. AU - Botvinnikov, V.I.; Tsepliaev, V.M.
TI - Transportation development in the areas of discoveries of new natural resources in West Siberia
OTI - O transportnom osvoenii novykh kompleksov prirodnykh resursov Zapadnoi Sibiri
SO - Problemy osvoeniia Zapadno-Sibirskoi neftegazonosnoi provintsii (Economic development of the West Siberian petroleum province), Novosibirsk, 1966, p 58-66
LA - Rus
IT - subarctic regions; transportation; construction equipment; petroleum transportation; railroads; roads; all-terrain vehicles; pipelines; air cushion vehicles

147. AU - Ives, G.
TI - Air cushion vehicle's operation use in Arctic
SO - Petroleum Engineer International, vol. 46, no. 1, Jan 1974, p 64, 66
LA - Eng
IT - all-terrain vehicles; ice breaking; logistics; air cushion vehicles

148. AU - Tiuktiaev, I.; Zhabrov, A.; Solomko, A.
TI - Using all-terrain vehicles for labor-consuming work
OTI - Mekhanizatsiia trudoemkikh rabot na baze vezdekhodnoi mashiny
SO - Rybovodstvo i rybolovstvo, No. 5, Sept-Oct 1973, p 10-12
LA - Rus
IT - cost analysis; lakes; swamps; all-terrain vehicles

149. AU - Svitov, I.
TI - Combat encounter on mountain-taiga terrain
OTI - Vstrechnyi boi v gorno-taezhnoi mestnosti
SO - Voennyi vestinik, No. 4, April 1973, p 54-58
LA - Rus
IT - taiga terrain; taiga vegetation; military operation; tanks-combat vehicles

150. AU - Liston, R.A.
TI - Operational evaluation of the SK-5 air cushion vehicle in Alaska

SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 243, Sept 1973, 39 p
LA - Eng
IT - air cushion vehicles; cold weather tests

151. AU - Gur'ev, IU.S.; Sushkin, A.M.
TI - Rubber-metal caterpillar tracks for excavators operating in peat swamps
OTI - Rezino-metallicheskie gusenitsy dlia torfianykh i meliorativnykh mashin
SO - Stroitel'nye i dorozhnye mashiny, No. 7, July 1973, p 4-5
LA - Rus
IT - swamps; peat; tracked vehicles; trenching; all-terrain vehicles

152. AU - Kriukov, E.A.; Morgachev, I.I.; Rozhnov, A.I.
TI - Peatbog and meliorative equipment with fluid drives
OTI - Meliorativnye i torfianye mashiny s gidroprivodom
SO - Stroitel'nye i dorozhnye mashiny, No. 9, Sept 1973, p 19-23
LA - Rus
IT - swamps; frozen ground; earthwork; excavating equipment; all-terrain vehicles

153. TI - Trials of an SR.N6 hovercraft at Churchill, Manitoba, January-March 1968
SO - Canada. Defence Research Board. Report, No. DR 182, 1968, 128 p
LA - Eng
IT - ice structure; sea ice; ice navigation; cold weather operation; arctic terrain; vegetation factors; icing; air cushion vehicles

154. AU - Le Schack, L.A.; Long, J.B.
TI - Examining some design parameters for Arctic surface effect vehicles by means of airborne laser profilimetry
SO - Hovering Craft and Hydrofoil, vol. 11, no. 12, Sept 1972, p 18-23
LA - Eng
IT - air cushion vehicles; microrelief; pack ice; sea ice; ice surface; arctic terrain; lasers

155. AU - Bamford, M.A.T.
TI - Tracked vehicle design for Arctic applications
SO - Engineering Journal, vol. 56, no. 7-8, July/Aug 1973, p 31-34
LA - Eng
IT - arctic soil; design criteria; materials; all-terrain vehicles; tracked vehicles; snow vehicles

156. AU - Vincent, C.R.
TI - Rolligons work well in Arctic
SO - Oil and Gas Journal, vol. 71, no. 37, Sept 10, 1973, p 102-103
LA - Eng

IT - vehicle wheels; tundra terrain; all-terrain vehicles

157. TI - Unique vehicle on rollers conquers Arctic in stride
SO - Pipeline and Gas Journal, vol. 199, no. 8, July 1972, p 26-27
LA - Eng
IT - design criteria; all-terrain vehicles

158. AU - Liston, R.A.
TI - Observations of surface effect vehicle performance
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 240, April 1973, 59 p
LA - Eng
IT - air cushion vehicles; arctic terrain; design criteria

159. AU - Forsyth, R.W.; Forsyth, J.P.
TI - New high-mobility military vehicles
SO - Automotive Industries, vol. 132, no. 8, April 1965, p 102
LA - Eng
IT - all-terrain vehicles

160. AU - Areshoug, S.
TI - Proposed method for determining mobility of vehicles and motorized units on the road and cross country
OTI - Forslag till metod for restamning av fordons och motoriserade forbands rolighet pa vag och i terrang
SO - U.S. Army Foreign Science and Technology Center. Technical translation, March 15, 1973-FSTC-HT-23-1850-72, 42 p
LA - Eng, Swe
IT - trafficability; all-terrain vehicles; terrain analysis; design criteria

161. AU - Radforth, J.R.
TI - Effects of off-road vehicle trails on the active layer in tundra
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 103, Dec 1971, p 48-49
LA - Eng
IT - active layer; tundra terrain; all-terrain vehicles; human factors; conservation

162. AU - Hanamoto, B.
TI - Effect of snow cover on obstacle-crossing performance of vehicles
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 239, Nov 1972, 29 p
LA - Eng
IT - topographic features; tracked vehicles; snow cover effect; cold weather performance; snow vehicles

163. AU - Nichols, L.G.
TI - Air cushion transporter - solution to many Arctic transportation problems
SO - Offshore Technology Conference. No. 4, 1972, p II/593-II/596
LA - Eng
IT - air cushion vehicles; all-terrain vehicles

164. AU - Korsak, V.K.
TI - Selecting motor- and all-terrain vehicles for operation in the North
OTI - O vybore sredstv avtomobil'nogo i bezdorozhnogo transporta dlia raboty na Severe
SO - Problemy Severa, Vol. 17, 1972, p 103-108
LA - Rus
IT - cold weather performance; cold weather operation; tracked vehicles; motor vehicles; all-terrain vehicles; tires; rubber-snow friction

165. AU - Khanzhonkov, V.I.
TI - Aerodynamics of air cushion vehicles
OTI - Aerodinamika apparatov na vozdushnoi podushke
SO - Moscow, Mashinostroenie, 1972, 328 p
LA - Rus
IT - design criteria; air cushion vehicles; all-terrain vehicles

166. AU - Ageikin, IA.S.
TI - Wheels and combined propulsion gear for all-terrain vehicles (theory and design)
OTI - Vezdekhodnye kolesnye i kombinirovannye dvizhiteli (teoriia i raschet)
SO - Moscow, Mashinostroenie, 1972, 184 p
LA - Rus
IT - vehicle wheels; all-terrain vehicles; tracked vehicles; tires; rubber-ice friction; rubber-snow friction; soil trafficability

167. AU - Abel', E.B.
TI - Increasing the ability of motor vehicles to travel under arctic conditions
OTI - Povyshenie prokhodimosti avtomobilei v usloviiakh Arktiki
SO - Problemy Severa, Vol. 16, 1972, p 238-243
LA - Rus
IT - tundra terrain; snow surface; ice surface; trafficablity; motor vehicles; all-terrain vehicles

168. AU - Rickard, W.E.
TI - Preliminary ecological evaluation of the effects of air cushion vehicle tests on the arctic tundra of northern Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 182, Sept 1972, 22 p
LA - Eng
IT - solar radiation; patterned ground; air cushion vehicles; tundra soils; tundra vegetation; albedo; environmntal tests

169. AU - Liston, R.A.
TI - Effect of low visibility on the performance of vehicle operators
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 237, Aug 1972, 12 p
LA - Eng
IT - whiteout; cold weather operation; all-terrain vehicles; visibility; human factors engineering

170. AU - Miller, R.H.
TI - Surface effect vehicles for Arctic cargo haul and distribution
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1972, p 99-119
LA - Eng
IT - arctic terrain; cargo; air cushion vehicles

171. AU - Reimers, K.W.
TI - All-season vehicle for sea ice
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1971, p 120-127
LA - Eng
IT - pack ice; transportation; arctic terrain; tracked vehicles

172. AU - Faulkner, C.
TI - Mobile laboratories and work platforms
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1972, p 128-140
LA - Eng
IT - arctic terrain; air cushion vehicles; laboratory techniques

173. AU - Harwood, T.A.; Yong, R.N.
TI - Northland vehicle considerations
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 104, 1972, p 129-145
LA - Eng, Fre
IT - all-terrain vehicles; tracked vehicles; soil trafficability

174. AU - Shugurov, L.M.
TI - Giant automobiles
OTI - Avtomobili-giganty
SO - Moscow, Znanie, 1971, 48 p, (Pertinent pages 4-15)
LA - Rus
IT - motor vehicles; all-terrain vehicles; tires; rubber-snow friction

175. AU - Beskin, I.A.
TI - Off-the-road transportation vehicles
OTI - Transport dlia bezdorozh'ia
SO - Moscow, Znanie, 1971, 48 p

LA - Rus
IT - snow cover effect; motor vehicles; all-terrain vehicles; tracked vehicles; air cushion vehicles; soil trafficability

176. AU - Cherkasov, A.I.
TI - Pattern and geographic characteristics of the development of transport systems in the Canadian Far North
OTI - Strukturno-geograficheskie osobennosti razvitiia transporta na dal'nem severe Kanady
SO - Moscow. Universitet. Vestnik. Seriia 5 Geografiia, No. 2, March/April 1972, p 89-92
LA - Rus, Eng
IT - Canada - Yukon Territory; transportation; tundra terrain; roads; airplanes; air cushion vehicles; all-terrain vehicles

177. AU - Eggington, W.J.; Abel, I.
TI - Use of surface effect vehicles for long-range Arctic missions
SO - Arctic Logistics Support Technology. Proceedings of a symposium held at Hershey, PA, Nov 1, 1971, Arctic Institute of North America, 1972, p 83-98
LA - Eng
IT - arctic terrain; transportation; air cushion vehicles

178. AU - Wheeler, R.L.
TI - Air cushion equipment for moving oil-rigs
SO - Canadian Astronautics and Space Journal, vol. 18, no. 1, Jan 1972, p 17-24
LA - Eng
IT - air cushion vehicles; drilling; oil recovery; all-terrain vehicles

179. AU - Kay, B.
TI - ACV transport gaining approval
SO - Oilweek, vol. 22, no. 32, Sept 27, 1971, p 16-17
LA - Eng
IT - all-terrain vehicles; cold weather tests; transportation; air cushion vehicles; design criteria; cold weather operation

180. AU - Courtial, A.W.
TI - SEV' for the Arctic
SO - Northern Engineer, vol. 3, no. 2, Summer 1971, p 4-6
LA - Eng
IT - arctic regions; transportation; research programs; design criteria; air cushion vehicles; all-terrain vehicles; human factors

181. AU - Pierce, N.E.; Sherwood, G.E.
TI - Polar transportation equipment - lightweight, 3/4 ton-unit cargo sled
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical Report, R-392, June 1965, 18 p
LA - Eng
IT - cargo; sleds; transportation; cold weather performance

182. AU - Nikolaev, A.F.
TI - Learning from the penquins
SO - Antarctica, vol. 5, no. 10, June 1970, p 427
LA - Eng
IT - snow vehicles; all-terrain vehicles

183. AU - Khodakov, V.G.
TI - Structure and properties of snow cover in various landscape types
OTI - (Struktura i svoistva snezhnogo pokrova v raznykh landshaftnykh zonakh)
SO - Geograficheskoe obshchestvo SSSR. Zabaikal'skii filial. Izvestiia, vol. 4, no. 3, 1968, p 58-68
LA - Rus
IT - snow depth; snow temperature; albedo; snow density; trafficability; tracked vehicles; landscape types; snow cover distribution; tundra topography; forest tundra; taiga terrain; snow cover structure

184. AU - Zlobin, G.P.; Simonov, IU.A.
TI - Air cushion ships
OTI - (Suda na vozdushnoi podushke)
SO - Leningrad, Sudostroenie, 1971, 212 p, (Pertinent pages 187-189)
LA - Rus
IT - cold weather performance; ships; air cushion vehicles; all-terrain vehicles

185. AU - Kevan, P.G.
TI - Vehicle tracks on high Arctic tundra: An 11 year case history around Hazen Camp, Ellesmere Island, N.W.T.
SO - Defence Research Board, Earth Sciences Division. Canada. Report, Hazen 41, Sept 1971, 17 p
LA - Eng
IT - snow cover effect; damage; tundra terrain; tracked vehicles; frozen ground compression; soil strength

186. AU - Gorbunov, IU.
TI - Operation of air cushion vehicles
OTI - (Primenenie sudov na vozdushnoi podushke)
SO - Morskoi flot, No. 3, 1971, p 61-63
LA - Rus
IT - all-terrain vehicles; air cushion vehicles; marine transportation

187. AU - Burt, G.R.
TI - Travel on thawed tundra
SO - Alaska. University. Institute of Arctic Environmental Engineering. Note, N7005, Sept 1970, 23 p
LA - Eng

IT - tundra terrain, active layer; vehicles; tests; soil stabilization; trafficability

188. AU - Garner, A.M.; Kennedy, J.H.
TI - Design, fabrication and initial trials of a light amphibious Arctic transporter
SO - Canadian Aeronautics and Space Journal, vol. 17, no. 6, June 1971, p 229-235
LA - Eng
IT - amphibious vehicles; air cushion vehicles; all-terrain vehicles; performance

189. AU - Walker, G.
TI - NORGEM: a small hybrid wheeled ground effect transport for northern use
SO - Northern Engineer, Vol. 1, no. 3, Summer 1969, p 7, Condensed version of a paper presented to the 19th Alaskan Science Conference, Aug 1968
LA - Eng
IT - transportation; all-terrain vehicles; air cushion vehicles; motor vehicles

190. AU - Semenov, V.M.; Solov'ev, V.I.; Morozov, V.V.; Nemtinov, M.D.; IUrushkin, D.G.
TI - Pneumatic Caterpillar tracks for all-terrain vehicles
OTI - (Pnevmaticheskie gusenitsy dlia vezdekhodnykh transportnykh sredstv)
SO - Avtomobil'naia promyshlennost', No. 4, April 1970, p 24-26
LA - Rus
IT - all-terrain vehicles; tracked vehicles

191. AU - Shoikhet, B.M.
TI - Air cushion in industrial transportation
OTI - (Vozdushnaia podushka v promyshlennom transporte)
SO - Moscow, Znanie, 1970, 47 p
LA - Rus
IT - snow cover effect; transportation; air cushion vehicles; swamps

192. AU - Radforth, J.R.
TI - Hybrid computer simulation of terrain-vehicle systems
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 90, March 1967, p 63-69
LA - Eng, Fre
IT - design criteria; muskeg; computer applications

193. AU - Timonin, A.
TI - Moonmobile
OTI - (Lunokhod)
SO - Nauka i zhizn', No. 2, Feb 1971, p 4-8

LA - Rus
IT - frost resistance; thermal insulation; all-terrain vehicles; metals

194. AU - Leighty, R.D.
TI - Terrain mapping from aerial photography for purposes of vehicle mobility
SO - Journal of Terramechanics, vol. 2, no. 3, 1965, p 55-67
LA - Eng
IT - photointerpretation; terrain analysis; photogrammetry; trafficability

195. AU - Vinogradov, B.V.
TI - Geographic correlations in distant extrapolation of interpretation characteristics of landscape analogs
SO - U.S. Army Materiel Command. Foreign Science and Technology Center. Technical translation, Report Number TL 179, FSTC-HT-23-740-68, Nov 1969, 54 p
LA - Eng, Rus
IT - aerial photography; terrain analysis; photo interpretation

196. AU - Jansen, D.
TI - Hovercraft to forefront of Arctic petroleum hunting
SO - Oilweek, vol. 33, no. 3, March 1971, p 40, 42, 48
LA - Eng
IT - snow cover effect; Canada-Northwest Territories-North Slope; ice navigation; air cushion vehicles; all-terrain vehicles; marine transportation; petroleum industry

197. AU - Ruzhitskii, E.I.
TI - Air-cushion all-terrain vehicles
OTI - Vozdushnye vezdekhody
SO - Moscow, Mashinostroenie, 1964, p 178 (Pertinent pages 82-84)
LA - Rus
IT - air cushion vehicles

198. AU - Simakov, E.
TI - Air-cushion all-terrain vehicles
OTI - (Vozdushnye vezdekhody)
SO - Moscow, DOSAAF, 1967, 79 p (Pertinent pages 33-37)
LA - Rus
IT - air cushion vehicles

199. AU - Agranat, G.A.
TI - Economic development of the north outside the USSR
OTI - (Zarubezhnyi Sever: opyt osvoeniia)
SO - Moscow, Nauka, 1970, 414 p (Pertinent pages 100-118, 345-397)
LA - Rus
IT - arctic climate; arctic terrain; arctic vegetation; construction; transportation; pipelines; construction equipment

200. AU - Burt, G.R.
TI - Summer travel on the tundra with low ground pressure vehicles
SO - Alaska. University. Institute of Arctic Environmental Engineering. Report, N7004, 1970, 9 p
LA - Eng
IT - tundra terrain; vehicles; trafficability; active layer

201. AU - Brylov, S.A.; Grabchak, L.G.
TI - Means of transportation for geological exploration
OTI - (Transport pri geologorazvedochnykh rabotakh)
SO - Moscow, Nedra, 1970, 184 p (Pertinent pages 47-62, 94-102, 109-113)
LA - Rus
IT - snow roads; ice roads; transportation; vehicles; air cushion vehicles

202. AU - Danielian, A.A.; Buvailo, I.A.; IAstrebov, P.I.
TI - Designing certain types of equipment for oil industry for West Siberia
OTI - (Razrabotka nekotorykh vidov neftianogo oborudovaniia dlia uslovii Zapadnoi Sibiri)
SO - Neftianoe khoziaistvo, No. 3, March 1968, p 53-56
LA - Rus
IT - transportation; drilling; construction equipment; vehicles

203. AU - Imhoff, L.A.
TI - Vehicles for travelling over various types of terrain
SO - U.S. Patent Office. Patent, April 1, 1969, 4 p
LA - Eng
IT - ground cover; soil texture; skis; snow vehicles; vehicle wheels; surface roughness

204. TI - Heavy tank trailer
SO - Avtomobil'nyi transport, No. 4, April 1968, p 59
LA - Rus
IT - transportation; vehicles

205. AU - Nikolaev, A.F.; Gavrilov, IU.M; Kuliashov, A.P.; Persikov, V.I.
TI - Testing machines equipped with rotary propellers in swamps
OTI - (Nekotorye rezul'taty ispytanii mashiny na rotorno-vintovykh dvizhiteliakh v usloviiakh zabolochennoi mestnosti)
SO - Torfianaia promyshlennost', No. 12, 1969, p 2-4
LA - Rus
IT - lakes; swamps; propellers

206. AU - Ashdown, K.; Radforth, N.W.
TI - Trafficability of organic terrain
SO - National Research Council, Canada, Associate Committee on Geotechnical Research. Muskeg Research Conference, 11th, May 1965 Proceedings, Technical memorandum No. 87, May 1966, p 184-190

LA - Eng, Fre
IT - bearing strength; trafficability; muskeg; vehicles

207. AU - Siddall, J.N.; Newcombe, W.R.; Radforth, J.R.; Ghosh, K.K.
TI - A rational empirical approach to muskeg vehicle research
SO - National Research Council, Canada, Associate Committee on Geotechnical Research. Muskeg Research Conference, 11th, May 1965 Proceedings, Technical memorandum No. 87, May 1966, p 191-219
LA - Eng, Fre
IT - design criteria; performance; vehicles; muskeg; terrain analysis

208. AU - Tarkhanovskii, V.
TI - Amphibian all-terrain vehicle
OTI - Vezdekhod-amfibiia
SO - Izobretatel' i ratsionalizator, No. 12, Dec 1971, p 16-17
LA - Rus
IT - propellers; all-terrain vehicles

Chapter VIII - Amphibious vehicles.

Chapter VIII

1. AU - El'tes, M.I.; Matskov, L.N.; Vol'skii, S.G.
TI - Selecting propulsion gear for all-terrain vehicles
OTI - Vybor dvizhitelia dlia transportnykh sredstv vysokoi prokhodimosti
SO - Promyshlennyi transport, No. 6, June 1979, p 6-7
LA - Rus
IT - transportation; all-terrain vehicles; tracked vehicles; air-cushion vehicles; vehicle wheels; tires

2. AU - Buck, J.; Pritchett, C.W.
TI - Air Cushion Vehicle (ACV) icebreaker test and evaluation program. Volume I. Executive summary
SO - U.S. Coast Guard Research and Development Center. Report, CGR/DC-12-78, July 1978, 39 p
LA - Eng
IT - river ice; low temperature tests; icebreakers; air cushion vehicles; cold weather performance

3. AU - Buck, J.; Dennis, B.; Anthony, J.; Neal, E.
TI - Air Cushion Vehicle (ACV) icebreaker test and evaluation program. Volume 2. Operational and engineering analysis
SO - U.S. Coast Guard Research and Development Center. Report, CGR/DC-13-78, Aug 1978, 156 p
LA - Eng
IT - low temperature tests; river ice; air cushion vehicles; icebreakers; cold weather performance

4. AU - Chaplin, J.B.
TI - Air cushion vehicle, evaluation and potential
SO - American Society of Naval Engineers, Journal, vol. 78 no. 3, June 1966, p 421-442
LA - Eng
IT - vehicles-air cushion

5. AU - Abele, G.
TI - Performance testing of an air cushion vehicle on the Greenland Ice Cap
SO - Journal of Terramechanics, vol. 4, no. 1, 1967, p 19-30, Also: U.S. Army Cold Regions Research and Engineering Laboratory, Special report 91, Feb 1966, 19 p
LA - Eng
IT - vehicles-air cushion

6. TI - Arctic surface effect vehicle program. Volume 2. Technology summary and design development
OS - U.S. Naval Ship Research and Development Center, Bethesda, MD
SO - Distribution limited to agencies of the U.S. Government only, NSRDC-4595, 1975, 516 p
LA - Eng
IT - air cushion vehicles; Arctic regions; sea ice; surface roughness; engineering; logistics

7. AU - Supcoe, R.F.
TI - Ice formation and removal aboard the Arctic surface effects vehicle
SO - U.S. Naval Ship Research and Development Center. Report, NSRDC-28-342, Aug 1972, 22 p, Distribution limited to U.S. Governmentagencies only
LA - Eng
IT - air cushion vehicles; ice formation; ice removal

8. AU - Smith, M.; Nakano, Y.
TI - Model analysis of vehicle trafficability with application to surface effect vehicles on sea ice fields
SO - Journal of Terramechanics, Report Number MP 647, vol. 9, no. 2, 1973, p 65-82. For another version see RR 298, 26-3382
LA - Eng
IT - models, air cushion vehicles; sea ice; trafficability; statistical analysis

9. AU - Abele, G.; Brown, J.; Brewer, M.C.; Atwood, D.M.
TI - Effects of low ground pressure vehicle traffic on tundra at Lonely, Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 77-31, Sep 1977, 32 p
LA - Eng
IT - patterned ground; soil moisture; air cushion vehicles; tracked vehicles; tundra vegetation; vehicle wheels; environmental impact; damage

10. AU - Abele, G.; Brown, J.
TI - Arctic transportation: operational and environmental evaluation of an Air Cushion Vehicle in northern Alaska
SO - Journal of Pressure Vessel Technology, Report Number MP 985, vol. 99, no. 1, Feb 1977, p 176-182
LA - Eng
IT - environmental impact; tundra vegetation; damage; air cushion vehicles; transportation; trafficability; arctic terrain; environments

11. AU - Gran, R.
TI - Monte Carlo analysis of a surface effect vehicle in a random ice field
SO - Grumman Aerospace Corporation. Report, RM-554, Oct 1972, 24 p
LA - Eng
IT - computerized simulation; mathematical models; sea ice; pressure ridges; air cushion vehicles

12. AU - Shenfil, L.
TI - Arctic surface effect vehicle program. Volume III. Skirt system study
SO - Aerojet-General Corporation. Report, AGC-T-394, Oct 1973, 217 p, Distribution limited to U.S. Government agencies only

LA - Eng
IT - air cushion vehicles; sea ice; pressure ridges; simulation; tests

13. AU - Hibler, W.D., III
TI - Sea ice terrain and mobility model
SO - Army Science Conference, West Point, June 1974. Proceedings, Vol. 1, Report No. MP 794, p 447-454
LA - Eng
IT - ice surface; ice pressure; air cushion vehicles; sea ice; pack ice; trafficability

14. TI - Proceedings. Volume 2 International Conference on Terrain-Vehicle Systems, 4th, Stockholm, April 24-28, 1972
SO - Stockholm, Sweden, 1972, 258 p
LA - Eng
IT - snow depth; snow strength; tests; air cushion vehicles; trafficability; all-terrain vehicles

15. AU - Fowler, H.S.
TI - Air Cushion Vehicle: a possible answer to some Arctic transport problems
SO - Polar Record, vol. 18, no. 114, Sep 1976, p 251-258
LA - Eng
IT - air cushion vehicles; ice navigation; ice breaking; water transport; surface roughness

16. AU - Abele, G.
TI - Effects of air cushion vehicle operations on organic terrains
SO - American Society of Agricultural Engineers. Paper No. 73-135, Report No. MP 811, 15 p, Presented at the American Society of Agricultural Engineers, Annual meeting, June 17-20, 1973, Lexington, KY, St. Joseph, MI, 1973
LA - Eng
IT - air cushion vehicles; tundra vegetation; muskeg; damage

17. AU - Lutton, T.C.
TI - Air Cushion Vehicle Evaluation. San Francisco, California Point Barrow, Alaska. 1 January-31 August 1971
SO - U.S. Coast Guard, ACV Evaluation Unit, San Francisco, CA. Report, ACV-EU-3960-01, Oct 15, 1971, 187 p
LA - Eng
IT - air cushion vehicles; cold weather operation; cold weather performance

18. AU - Chapman, R.M.; Mantle, P.J.
TI - Arctic surface effect vehicle program by J.U. Kordenbrock and C.W. Harry
SO - Naval Engineers Journal, vol. 88, no. 3, June 1976, p 63-64
LA - Eng
IT - air cushion vehicles; research projects

19. AU - Hibler, W.D., III; Ackley, S.F.
TI - Height variation along sea ice pressure ridges and the probability of finding "holes" for vehicle crossings
SO - Journal of Terramechanics, Report Number MP 848, vol. 12, no. 3/4, 1975, p 191-199
LA - Eng
IT - sea ice; pressure ridges; air cushion vehicles; ice crossings; height finding

20. AU - Kordenbrock, J.U.; Harry, C.W.
TI - Arctic surface effect vehicle program
SO - Naval Engineers Journal, vol. 88, no. 2, Apr 1976, p 70-83
LA - Eng
IT - cold weather operation; pack ice; air cushion vehicles; research projects; surface roughness; pressure ridges

21. AU - Grunther, R.G.; Lederman, P.
TI - Survey of skirt materials for an Arctic surface effect vehicle
SO - U.S. Naval Ship Research and Development Center. Report, No. 8-882, Oct 1971, 32 p, Distribution limited to U.S. Government agencies
LA - Eng
IT - air cushion vehicles; cold weather tests

22. AU - Fowler, H.S.
TI - Air cushion vehicle as a load-spreading transport device
SO - Journal of Terramechanics, vol. 12, no. 2, Sep 1975, p 43-53
LA - Eng
IT - air cushion vehicles; all-terrain vehicles; topographic effects

23. AU - Hibler, W.D., III; Ackley, S.F.
TI - Sea ice terrain model and its application to surface vehicle trafficability
SO - Journal of Terramechanics, Report Number MP 693, vol. 12, no. 3/4, Dec 1975, p 171-190
LA - Eng
IT - sea ice; pressure ridges; air cushion vehicles; trafficability; models; terrain analysis

24. AU - Brooks, E.N., Jr.; Bernitt, C.L.
TI - Twin-cushion surface effect vehicle
SO - Canadian Aeronautics and Space Journal, vol. 20, no. 8, Oct 1974, p 417-424
LA - Eng
IT - air cushion vehicles; experimental data; all-terrain vehicles; pressure ridges

25. AU - Murchison, H.G.
TI - Preliminary studies of an air cushion vehicle for logging in eastern Canada

SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, No. 102, Jan 1972, p 123-146
LA - Eng, Fre
IT - Arctic terrain; muskeg; air cushion vehicles

26. AU - Cohen, V.; Rothschild, D.
TI - On the control of a four-vehicle train of surface effect vehicles
SO - Journal of Terramechanics, vol. 11, no. 3/4, 1974, p 49-78
LA - Eng
IT - analysis-mathematics; air cushion vehicles

27. AU - Hatchwell, J.A.; Lenton, R.A.
TI - Feasibility study of an integrated mobile data collection platform using an air cushion vehicle
SO - Arctic Institute of North America. Technical report, May 1972, 103 p
LA - Eng
IT - air cushion vehicles; sea ice; design criteria

28. AU - Liston, R.A.
TI - Air cushion vehicle: Key to an Alaskan transportation system?
SO - High Speed Ground Transportation Journal, Report No. MP 592, vol. 7, no. 2, 1973, p 247-263
LA - Eng
IT - air cushion vehicles; all-terrain vehicles; transportation

29. AU - Liston, R.A.
TI - Air cushion vehicle operations in Arctic and Subarctic terrain
SO - International Automotive Engineering Congress, Detroit, MI, Jan 8-12, 1973, Report No. MP 591, 14 p, New York, Society of Automotive Engineers, Inc., 1973
LA - Eng
IT - air cushion vehicles; cold weather operation

30. AU - Mock, S.J.; LaGarde, V.; Tucker, W.B.
TI - Arctic terrain characteristics data bank
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 247, March 1974, 47 p
LA - Eng
IT - arctic terrain, data processing; sea ice; ice navigation; aerial photography; air cushion vehicles

31. AU - Weaver, R.J.; Ramsier, R.O.
TI - Small air cushion vehicle operation on floating ice under winter conditions
SO - Canadian Aeronautics and Space Journal, vol. 19, no. 10, Dec 1973, p 497-498
LA - Eng
IT - air cushion vehicles; cold weather performance; ice cover effect

32. AU - Rhoads, E.M.
TI - Air cushion vehicle: A new source of transportation for the Arctic?
SO - Northern Engineer, vol. 4, no. 2, Winter 1972, p 7-9
LA - Eng
IT - transportation; air cushion vehicles

33. AU - Liston, R.A.
TI - Operational evaluation of the SK-5 air cushion vehicle in Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 243, Sep 1973, 39 p
LA - Eng
IT - air cushion vehicles; cold weather tests

34. AU - Ives, G.
TI - Air cushion vehicle's operational use in Arctic
SO - Petroleum Engineer International, vol. 46. no. 1, Jan 1974, p 64, 66
LA - Eng
IT - all-terrain vehicles; ice breaking; logistics; air cushion vehicles

35. AU - Liston, R.A.
TI - Observations of surface effect vehicle performance
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 240, Apr 1973, 59 p
LA - Eng
IT - air cushion vehicles; Arctic terrain; design criteria

36. AU - Wang, C.J.
TI - Advanced research projects agency, Arctic surface effect vehicle program
SO - Canadian Aeronautics and Space Journal, vol. 18, no. 5, May 1972, p 123-127
LA - Eng
IT - research projects; air cushion vehicles

37. AU - Scheurich, P.R., Jr.; Kidd, M.A.
TI - Results of preliminary parametric design analysis of an arctic surface effect vehicle
SO - Canadian Aeronautics and Space Journal, vol. 18, no. 5, May 1972, p 129-134
LA - Eng
IT - air cushion vehicles; design criteria; ice cover effect; snow cover effect

38. AU - Benua, IU.; Ozimov, L.V.
TI - Air cushion vehicle
SO - Soviet Inventions Illustrated. Section 3, Mechanical and General, Feb 1971, p 24E
LA - Eng, Rus
IT - air cushion vehicles

39. AU - Liston, R.A.
TI - Surface effect vehicle engineering test procedures
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 161, Aug 1971, 28 p
LA - Eng
IT - slopes; air cushion vehicles; performance; tests

40. TI - Air cushion vehicle thwarts barrier to winter water data
SO - Environmental Science and Technology, vol. 3, no. 4, Apr 1969, p 324-325
LA - Eng
IT - ice cover thickness; water temperature; measuring instruments; lake ice; air cushion vehicles

41. AU - Kelly, J.J.
TI - SES Programs, civilian application
OS - American Society of Civil Engineers, 345 East 47th Street, New York
SO - American Society of Civil Engineers, New York, 1977

42. AU - Benson, J.L.
TI - Amphibious Assault Landing Craft (AALC) advanced development program--turning technology into fleet capability
OS - Association of Scientists and Engineers of NASSC, Department of the Navy, Washington, DC
SO - Association of Scientists and Engineers of NASSC, Department of the Navy, Washington, DC, 1977, 26 p

43. AU - Guienne, P.F.
TI - The 260-ton amphibious hovercraft--Naviplane N500
SO - Journal of Hydronautics, Vol. 13, No. 2, Apr 1979, p 33-38

44. AU - Ellsworth, W.M.
TI - Navy advanced ship programs
OS - American Society of Civil Engineers, 345 East 47th Street, New York
SO - David Taylor Naval Ship R&D Center. Proceedings, 1977

45. AU - Gersten, A.
TI - A synthesis of AALC program air cushion vehicle seakeeping data
OS - David Taylor Naval Ship R&D Center, Ship Performance Department, Bethesda, MD
SO - National Technical Information Service Springfield, VA, 1977, 78 p, ADA040122

46. TI - Proceedings of the 10th Canadian Symposium on Air Cusion Technology
OS - Canadian Aeronautics and Space Institute, Montreal, Quebec, Canada
SO - Report No. TR-2-77, N77-24012/5ST, 1977, 185 p

47. AU - Mantle, P.J.
TI - A technical summary of air cushion craft development
OS - David Taylor Naval Ship R&D Center, Bethesda, MD
SO - DTNSRDC-4727, Oct 75, 367 p, ADA0225839/GA

48. AU - Ikeda, K.; Moriya, H.
TI - Development and practical use of submersible dredger
OS - International Ocean Development Conference, Japanese Management Association, Tokyo, Japan
SO - Sumitomo Shipbuilding & Machine Company, Japan

49. AU - Mantle, P.J.
TI - Cushions and foils
SO - Society of Naval Architects and Marine Engineers, New York, Paper No. 2, 1976, 16 p

50. AU - Bingham, A.F.
TI - Hovercraft from a shipbuilder
OS - Kalerghi Publicaions, 51 Welbeck Street, London Wl, England
SO - Vosper Thornycroft Limited, 1974, p 421-428

51. AU - Turner, D.G.W.
TI - Amphibious hover platforms
OS - Kalerghi Publications, 51 Welbeck Street, London Wl, England
SO - Mackace Limited, 1974, p 261-263

52. AU - Edwards, T.B.
TI - Vehicle wheel suspension
OS - Department of the Army, Washington, DC
SO - Report number PAT-APPL-201 216, Patent-3 161 248

53. AU - Zhivotovskii, A.; Shenberg, V.; Minchenya, A.
TI - The "Sormovich" experimental air cushion vehicle
OS - Naval Intelligence Support Center, Translation Services Division, Washington, DC
SO - Reprot number NISC-Trans-3677, 1975, ADA012080/8GA

54. AU - Chaplin, J.B.
TI - Amphibious surface effect vehicle technology--past, present and future
SO - American Institute of Aeronautics and Astronautics, Paper No. 74-318, 1974, 20 p

55. AU - Colquhoun, L.R.
TI - Operational and technical problems of commercial hovercraft
SO - AIAA/SNAME Advanced Marine Vehicles Conference, New York, Paper No. 74-321, 1974

56. TI - Amphibious ice breaking craft
SO - Ship and Boat International, Vol. 27, No. 12, Dec 1974, p 20

57. AU - Wachnik, Z.G.
TI - Air cushion vehicles--a new technology in the Navy
SO - Naval Engineers Journal, Vol. 85, No. 4, Aug 1973, p 65-78

58. AU - Paddison, F.C.; Stone, A.M.
TI - Transportation in the Arctic
OS - Applied Physics Laboratory, John Hopkins University, Silver Spring, MD
SO - APL-TG-1190, 1972, AD754381

59. TI - MLB/SERV (Motor life boat/surface effect rescue vehicle) operational study
SO - Report number MLB/SERV-3960-20, 1973, 99 p, AD761460

60. TI - Bigger, faster hovercraft will carry cargo and troops
SO - Product Engineering, Vol. 42, No. 1, Jan 1971, p 15-16

61. AU - Sullivan, P.A.; Placek, R.
TI - Review of the status of air cushion technology including suggestions for the organization of a Canadian research and development programme
SO - UTIAS Review, N33, 228 p

62. AU - Bloomfield, W.; Lauriat, T.B.
TI - Some aspects of free turbine engine hovercraft control
SO - Hovering Craft and Hydrofoil, Vol. 10, No. 12, Nov 1971, 5 p

63. AU - Ljungstrom, O.
TI - Air Cushion Vehicles (ACV) in water transport. A critical analysis of future possibilities and application in Scandinavia
SO - Report number APS-ME-35, ACTA Polytechnica Scandinavia, 1968, 220 p, PB-182980

64. AU - Abele, G.; Parrott, W.H.
TI - Snow surface erosion from a peripheral jet cushion ACV
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 163, Oct 1971, 19 p
LA -eng
IT - snow surface; deformation; tests; air cushion vehicles; snow erosion

65. AU - Abele, G.; Liston, R.A.
TI - Air cushion vehicle ground contact directional control devices
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 76-45, Dec 1976, 15 p
LA - eng
IT - air cushion vehicles

66. AU - Rickard, W.E.
TI - Preliminary ecological evaluation of the effects of air

cushion vehicle tests on the Arctic tundra of northern Alaska
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number SR 182, Sep 1972, 22 p
LA - Eng
IT - solar radiation; patterned ground; air cushion vehicles; tundra soils; tundra vegetation; albedo; environmental tests

67. AU - Rickard, W.E.; Brown, J.
TI - Effects of vehicles on Arctic tundra
SO - Environmental conservation, Report Number MP 737, vol. 1, no. 1, Spring 1974, p 55-62
LA - Eng
IT - tundra terrain; all-terrain vehicles; damage; ground thawing

68. AU - Sterrett, K.F.
TI - Arctic environment and the Arctic surface effect vehicle
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number CR 76-01, Jan 1976, 28 p
LA - Eng
IT - air cushion vehicles; sea ice; topographic features; arctic climate

69. AU - Abele, G.
TI - Hovercraft ground contact directional control devices
SO - International Hovering Craft, Hydrofoil and Advanced Transit Systems Conference, 2nd, Amsterdam, May 17-20, 1976. Proceedings, Report Number MP 875, p 51-59, London, Kalerglic Publications, 1976
LA - Eng
IT - tundra terrain; impact; all-terrain vehicles; air cushion vehicles; vehicle wheels

70. AU - Abele, G.; Parrott, W.H.
TI - Some effects of air cushion vehicle operations on deep snow
SO - International Conference on Terrain-Vehicle Systems, 4th, Stockholm, Apr 24-28, 1972. Proceedings. Vol. 2, Report Number MP 887, p 214-241, Stockholm, Sweden, 1972
LA - Eng
IT - surface properties; tests; air cushion vehicles; snow depth; erosion

71. AU - Abele, G.
TI - Effects of hovercraft, wheeled and tracked vehicle traffic on tundra
SO - National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, Muskeg Research Conference, 16th, Oct 7, 1976. Proceedings, Report Number MP 1123, Mar 1976, No. 116, p 186-215
LA - Eng
IT - air cushion vehicles; tracked vehicles; vehicle wheels; tundra vegetation; damage

72. AU - Slaughter, C.W.
TI - Vehicle for the future
SO - Surface Protection Seminar, Anchorage, AK, Jan 19-22, 1976. Proceedings, Edited by M.N. Evans, Bureau of Land Management, Anchorage, AK, Aug 1976, p 272-279
LA - Eng
IT - ground thawing; air cushion vehicles; Arctic soils; Arctic terrain

Chapter IX - Vehicle models or modeling.

1. AU - Long, J.B.
TI - Report on the model 843 Tucker Sno-Cat traverse vehicle
OS - University of Wisconsin
SO - University of Wisconsin, Geophysical Polar Research Center, Res. Rept. Ser. No. 62-5, Nov 1962, 40 p
LA - Eng
IT - vehicles-sno-cats

2. AU - Gran, R.
TI - Monte Carlo analysis of a surface effect vehicle in a random ice field
SO - Grumman Aerospace Corporation. Report, RM-554, Oct 1972, 24 p
LA - Eng
IT - computerized simulation; mathematical models; sea ice; pressure ridges; air cushion vehicles

3. AU - Hosoya, M.; Aragane, K.; Sato, K.
TI - Test traveling of oversnow vehicle (model KD 601) for Japanese Antarctic research
OTI - Nankyoku kansokuyo setsujosha (KD 601) no soko kiroku
SO - Antarctic Rec. Tokyo, No. 30, Dec 1, 1967, p 40-50
LA - Jap
IT - vehicles; Showa Station

4. AU - Smith, M.; Nakano, Y.
TI - Model analysis of vehicle trafficability with application to surface effect vehicles on sea ice fields
SO - Journal of Terramechanics, Report Number MP 647, vol. 9, no. 2, 1973, p 65-82 For another version see RR 298
LA - Eng
IT - models; air cushion vehicles; sea ice; trafficability; statistical analysis

5. AU - Hibler, W.D., III.; Ackley, S.F.
TI - Sea ice terrain model and its application to surface vehicle trafficability
SO - Journal of Terramechanics, Report Number MP 693, vol. 12, no. 3/4, Dec 1975, p 171-190
LA - Eng
IT - sea ice; pressure ridges; air cushion vehicles; trafficability; models; terrain analysis

6. AU - Hibler, W.D., III.
TI - Sea ice terrain and mobility model
SO - Army Science Conference, West Point, June 1974. Proceedings. Vol. 1, p 447-454
LA - Eng
IT - ice surface; ice pressure; air cushion vehicles; sea ice; pack ice; trafficability

7. AU - Pierce, N.E.; Moser, E.H.
TI - Polar transportation equipment - tests on a model 4VL trackmaster
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA Technical note, N-609, June 1964, 8 p
LA - Eng
IT - cold weather performance; cold weather tests; transportation; cargo; tracked vehicles

8. AU - Cullen, R.M.; Cullingford, G.; Mayfield, B.
TI - Rigid wheels in clay
SO - International Society for Terrain-Vehicle Systems, Second International Conference, Aug 29-Sept 2, 1966, Quebec. Proceedings, Toronto, Univ. of Toronto Press, 1966, p 446-470
LA - Eng
IT - models; clay soils; vehicle wheels; tests; soil pressure; trafficability

9. AU - Beard, W.H.; Sherwood, G.E.
TI - Polar transportation equipment - one-ton power wagon with high-flotation tires
SO - U.S. Naval Civil Engineering Laboratory, Port Hueneme, CA, Technical Report, R-401, 1965, 25 p
LA - Eng
IT - Antarctica; snow vehicles; transportation; cold weather performance

10. AU - Huston, J.C.; Johnson, D.B.
TI - Effect of the normal force dependence of cornering stiffness on the lateral stability of recreational vehicles
SO - Society of Automotive Engineers, Publication No. SP-463
IT - stability; vehicle directional control; vehicle dynamics; tires

11. AU - Taylor, D.L.
TI - Nonlinear stability and response of car-trailer combinations
SO - Society of Automotive Engineers, Publication No. SP-463
IT - vehicle dynamics; trailers; stability

12. AU - Kane, Thomas R.; Fossman, R.G.
TI - Experimental investigation of tire-roadway interaction
SO - Society of Automotive Engineers, Publication No. SP-463
IT - tires

13. AU - Bernard, J.E.; Vanderploeg, M.
TI - Static and dyanmic offtracking of articulated vehicles
SO - Society of Automotive Engineers, Publication No. SP-463
IT - vehicle dynamics; trailers; computer simulation

14. AU - Wickliffe, L.E.; Browne, A.L.
TI - Thermal conductivity measurement of tire materials
SO - Society of Automotive Engineers, Technical Paper No. 800179

IT - heat transfer; materials testing; laboratory instruments; test equipment; thermal measurements

15. AU - Lam, C.P.; Guntur, R.R.; Wong, J.Y.
TI - Evaluation of the braking performance of a tractor-semitrailer equipped with two different types of anti-lock systems
SO - Society of Automotive Engineers, Technical Paper No. 791046
IT - air brakes; antiskid devices; computer simulation; truck tractors; truck trailers

16. AU - Weeks, G.E.; Cost, T.L.
TI - A finite element solution for the coupled dynamic interaction behavior of a flexible vehicle traveling on a flexible guideway
SO - Society of Automotive Engineers, Proceedings No. P-83
IT - vehicle dynamics; vehicle performance; structural analysis; computer simulation; mass transit

17. AU - Dull, D.; Harlow, S.; Krutz, G.
TI - Increase traction with hydraulic assist drive
SO - Society of Automotive Engineers, Technical Paper No. 790813
IT - agricultural machinery; auxiliary power; four wheel drive; front wheel drive; hydrostatic transmissions

18. AU - Qualle, T.W.
TI - Testing GT 601 gas turbine truck
SO - Society of Automotive Engineers, Technical Paper No. 790771
IT - turbine trucks; turbine engines; vehicle performance tests; truck operation-truck performance; truck tractors

19. AU - Nakamura, I.; Ikawa, K.
TI - Analysis of steering force at low speed
SO - Society of Automotive Engineers, Technical Paper No. 790739
IT - steering; tires

20. AU - Jaquette, S.C.; Curran, R.T.; Politzer, J.L.
TI - Computer simulation model for forecasting mileage accumulation and testing rate
SO - Society of Automotive Engineers, Technical Paper No. 790704
IT - program management; test facilities; simulation; cost analysis

21. AU - Velinsky, S.A.; White, R.A.
TI - Increased vehicle energy dissipation due to changes in road roughness with emphasis on rolling losses
SO - Society of Automotive Engineers, Technical Paper No. 790653
IT - computer simulation; damping; fuel consumption; roads

22. AU - Kane, T.R.; Man, G.K.
TI - Characterization of wheel-roadway interaction for recreational vehicles
SO - Society of Automotive Engineers, Publication No. SP-443
IT - tires; vehicle dynamics; vehicle performance

23. AU - Johnson, D.B.; Huston, J.C.; Gray, T.A.
TI - The influence of drawbar flexibility and roll steer on the stability of articulated vehicles
SO - Society of Automotive Engineers, Publication No. SP-443
IT - stability; trailers; vehicle design; vehicle directional control; vehicle dynamics

24. AU - Huston, J.C.; Johnson, D.B.
TI - Relative significance of parameters affecting lateral stability of articulated recreational vehicles
SO - Society of Automotive Engineers, Publication No. SP-443
IT - stability; trailers; vehicle design; vehicle directional control; vehicle dynamics

25. AU - Cobb, W.A.
TI - Suspension parameter prediction using finite element analysis
SO - Society of Automotive Engineers, Technical Paper No. 790376
IT - computer simulation; structural analysis; suspension systems; vehicle directional control; vehicle dynamics

26. AU - Doyle, G.R., Jr.; Workman, G.H.
TI - Prediction of track tension when traversing an obstacle
SO - Society of Automotive Engineers, Technical Paper No. 790416
IT - off-road vehicles; military vehicles; computer simulation

27. AU - Ribarits, J.I.; Aurell, J.; Andersers, E.
TI - Ride comfort aspects of heavy truck design
SO - Society of Automotive Engineers, Technical Paper No. 781067
IT - truck design; ride evaluation; suspension systems

28. AU - Morello, L.; Piccolo, R.; Ippolito, L.
TI - Fiat research center hybrid vehicle prototype
SO - Society of Automotive Engineers, Technical Paper No. 790014
IT - computer simulation; electric vehicles; energy conservation; engine controls; fuel economy

29. AU - Mallikarjunarao, C.; Fancher, P.
TI - Analysis of the directional response characteristics of double tankers
SO - Society of Automotive Engineers, Technical Paper No. 781064
IT - hitches; stability; trailers; vehicle directional control; vehicle dynamics

30. AU - Gillespie, T.D.; Verma, M.K.
TI - Analysis of the rollover dynamics of double-bottom tankers
SO - Society of Automotive Engineers, Technical Paper No. 781065
IT - truck operation-truck performance; truck design

31. AU - Chu, M.L.; Doyle, G.R.
TI - Nondeterministic analysis of a four-wheeled model vehicle traversing a simulated random terrain

SO - Society of Automotive Engineers, Technical Paper No. 780789
IT - mathematical analysis; mobility research; simulation; suspension systems; vehicle dynamics

32. AU - Siegla, D.C.; Siewert, R.M.
TI - The variable stroke engine - problems and promises
SO - Society of Automotive Engineers, Technical Paper No. 780700
IT - spark ignition engines; fuel economy; exhaust emissions; combustion

33. AU - McNutt, B.; Pirkey, D.; Dulla, R.; Miller, C.
TI - A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars
SO - Society of Automotive Engineers, Technical Paper No. 780037
IT - fuel economy; statistics; data acquisition; regression analysis; dynamometers

34. AU - Martz, J.W.; Smiley, R.G.; Kormos, J.G.
TI - Field testing of "Reference Vehicles" as an aid to the design analysis process for earthmoving equipment
SO - Society of Automotive Engineers, Technical Paper No. 780485
IT - design; earthmoving equipment; structural analysis

35. AU - Brownfield, H.A.; Rogers, D.O.
TI - Analysis of 30 MPH frontal barrier utilizing half-scale metal models
SO - Society of Automotive Engineers, Technical Paper No. 780366
IT - crash research; models; scale models; vehicle safety

36. AU - Townley, G.E., Klahs, J.W.
TI - Dynamic simulation of an automotive body utilizing finite element and modal synthesis techniques
SO - Society of Automotive Engineers, Technical Paper No. 780364
IT - computer applications; structural analysis

37. AU - Mencik, Z.; Tobler, W.E.; Blumberg, P.N.
TI - Simulation of wide-open throttle vehicle performance
SO - Society of Automotive Engineers, Technical Paper No. 780289
IT - computer simulation; models; passenger car performance; simulation; vehicle performance

38. AU - Weir, D.H.; Zellner, J.W.
TI - Lateral-directional motorcycle dynamics and rider control
SO - Society of Automotive Engineers, Publication No. SP-428
IT - driver behavior; motorcycles

39. AU - Smith, J.R.; Tracy, J.C.; Potter, D.S.
TI - Tire rolling resistance - a speed dependent contribution
SO - Society of Automotive Engineers, Technical Paper No. 780255
IT - friction; tires

40. AU - Unnewehr, L.E.; Knoop, C.W.
TI - Electrical component modeling and sizing for EV simulation
SO - Society of Automotive Engineers, Technical Paper No. 780215
IT - electric vehicles; electric drives; models; batteries

41. AU - White, K.E.
TI - A digital computer program for simulating electric vehicle performance
SO - Society of Automotive Engineers, Technical Paper No. 780216
IT - electric propulsion; electric vehicles; simulation; vehicle dyanmics

42. AU - Yoshida, S.
TI - A scale model simulation of vehicle motions
SO - Society of Automotive Engineers, Technical Paper No. 780168
IT - models; simulation; stability; test equipment, tires

43. AU - Chiang, S.L.; Starr, D.S.
TI - Using computer simulation to evaluate and improve vehicle handling
SO - Society of Automotive Engineers, Technical Paper No. 780009
IT - computer simulation; passenger car performance; vehicle performance; vehicle performance tests

44. AU - Brueck, D.M.; Ward, E.D.
TI - A simplified method for the identification of vehicle suspension parameters
SO - Society of Automotive Engineers, Technical Paper No. 770884
IT - suspension systems; vehicle dynamics; test equipment; cylinder liners

45. AU - Lippmann, S.A.; Oblizajek, K.L.
TI - From perceptions of vehicle disturbance to corrective adjustments of tires
SO - Society of Automotive Engineers, Technical Paper No. 770868
IT - automotive diagnosis; biomechanics; computer simulation; damping

46. AU - Smith, D.W.
TI - Computer simulation of tractor ride for design evaluation
SO - Society of Automotive Engineers, Technical Paper No. 770704
IT - computer simulation; mathematical analysis; off-road vehicles; ride evaluation; vehicle dynamics; vibration

47. AU - Barone, M.R.
TI - Impact vibrations of rolling tires
SO - Society of Automotive Engineers, Proceedings No. P-71
IT - tires; vibration

48. AU - O'Keefe, P.J.; Hutchins, M.L.
TI - Tandem anti-lock systems for air braked vehicles

SO - Society of Automotive Engineers, Technical Paper No. 770662
IT - air brakes; antiskid devices; brakes; truck trailers

49. AU - Parekh, C.J.; Basas, J.E.; Kothawala, K.S.
TI - Application of isoparametric finite elements in vehicle structural mechanics
SO - Society of Automotive Engineers, Proceedings No. P-71
IT - structural analysis

50. AU - Augustitus, J.A.; Kamal, M.M.; HOwell, L.J.
TI - Design through analysis of an experimental automobile structure
SO - Society of Automotive Engineers, Proceedings No. P-71
IT - computer simulation; structural analysis

51. AU - Hieronimus, K.
TI - A few aspects on the development of structural models
SO - Society of Automotive Engineers, Proceedings No. P-71
IT - computer simulation; structural analysis

52. AU - Hill, S.H.; Dodd, J.L.
TI - A low NO/dx lightweight car diesel engine
SO - Society of Automotive Engineers, Technical Paper No. 770430
IT - diesel engines; exhaust emissions; fuel economy; multi-fuel engines

53. AU - Ahmed, S.R.
TI - The calculation of the flow field past a van with the aid of a panel method
SO - Society of Automotive Engineers, Technical Paper No. 770390
IT - aerodynamics

54. AU - Yoshida, Y.; Muto, S.; Imaizumi, T.
TI - Transient aerodynamic forces and moments on models of vehicles passing through cross-rind
SO - Society of Automotive Engineers, Technical Paper No. 770391
IT - aerodynamics; stability; vehicle safety

55. AU - Bergman, W.
TI - Critical review of the state-of-the-art in the tire force and moment measurements
SO - Society of Automotive Engineers, Technical Paper No. 770331
IT - tires

56. AU - Bayazitoglu, Y.O.; Chace, M.A.
TI - Dynamic analysis of a three-dimensional vehicle model undergoing large deflections
SO - Society of Automotive Engineers, Technical Paper No. 770051
IT - vehicle dynamics

57. AU - Morman, K.N., Jr.
TI - Non-linear model formulation for the static and dynamic analyses of front suspensions
SO - Society of Automotive Engineers, Technical Paper No. 770052
IT - suspension systems; mathematical analysis; vehicle dynamics; computer simulation

58. AU - Wheeler, P.
TI - Tracked vehicle ride dynamics computer program
SO - Society of Automotive Engineers, Technical Paper No. 770048
IT - computer simulation; military vehicle mobility; mobility research; ride evaluation; vehicle dynamics

59. AU - Barbarek, L.A.C.; Chiapetta, R.L.; Viergutz, O.J.
TI - Interactive trailer towing simulation
SO - Society of Automotive Engineers, Technical Paper No. 760791. Also published in SAE Transactions, 1976
IT - brakes; driver behavior; human performance; simulation; trailers

60. AU - Frisch, G.D.; O'Rourke, J.; D'Aulerio, L.
TI - The effectiveness of mathematical models as a human analog
SO - Society of Automotive Engineers, Publication No. SP-412
IT - biomechanics; crash research; human factors injuries; mathematical analysis; models

61. AU - Yoshimori, K.
TI - Vehicle controllability and human response characteristics
SO - Society of Automotive Engineers, Technical Paper No. 760780
IT - driver behavior; vehicle dynamics

62. AU - Winsor, F.J.
TI - Cornering compliance applied to dynamics of rolling vehicles
SO - Society of Automotive Engineers, Technical Paper No. 760711
IT - stability; vehicle directional control; vehicle dynamics

63. AU - Fleming, R.D.
TI - Fuel economy of light-duty diesel vehicles
SO - Society of Automotive Engineers, Technical Paper No. 760592
IT - diesel engines; diesel fuels; fuel consumption

64. AU - Morelli, A.; Fioravanti, L.; Cogotti, A.
TI - The body shape of minimum drag
SO - Society of Automotive Engineers, Technical Paper No. 760186
IT - aerodynamics; fuel consumption; vehicle design; automobile history; passenger car design; vehicle performance

65. AU - Blumberg, P.N.
TI - Powertrain simulation: a tool for the design and evaluation of engine control strategies in vehicles
SO - Society of Automotive Engineers, Technical Paper No. 760158
IT - simulation; emissions control; fuel consumption; engines; computer simulation; engine tests

66. AU - Majcher, J.S.; Michaelson, R.D.; Solomon, A.R.; Subhedar, J.W.
TI - Analysis of vehicle suspensions with static and dynamic computer simulations
SO - Society of Automotive Engineers, Technical Paper No. 760183. Also published in SAE Transactions, 1976
IT - computer simulation; kinematics; Wankel rotating combustion engine; suspension systems

67. AU - Holmes, H.R.
TI - Practical economic aspects of tractor/trailer aerodynamics
SO - Society of Automotive Engineers, Technical Paper No. 760103. Also published in SAE Transactions, 1976
IT - diesel engines; aerodynamics; construction equipment operation; truck tractors; truck trailers

68. AU - Gillespie, T.D.
TI - Front brake interactions with heavy vehicle steering and handling during braking
SO - Society of Automotive Engineers, Technical Paper No. 760025. Also published in SAE Transactions, 1976
IT - steering; air brakes; brakes; computer simulation; vehicle directional control; vehicle dynamics

69. AU - Pepoy, R.A.
TI - Commercial vehicle braking simulation: problem or solution to the vehicle manufacturer
SO - Society of Automotive Engineers, Technical Paper No. 760028
IT - air brakes; computer simulation; truck design; simulation tires; vehicle performance

70. AU - Larsen, T.L.
TI - Remotely piloted vehicle technology development using the XQM-103 research test vehicle
SO - Society of Automotive Engineers, Technical Paper No. 751109
IT - military aircraft; electric equipment-electronic; aircraft design; flight testing

71. AU - Murrell, J.D.
TI - Factors affecting automotive fuel economy
SO - Society of Automotive Engineers, Technical Paper No. 750958
IT - emissions control; engines; fuel consumption; passenger car performance; regression analysis; weight measurements

72. AU - Maaityaais, M.
TI - The fatigue life of vehicle frame structures
SO - Society of Automotive Engineers, Technical Paper No. 750968. Also published in SAE Transactions, Vol 84, 1975
IT - fatigue; fracture strength; frames; reliability; bus design; stresses; structures; couplings

73. AU - Simons, W.K.
TI - A new concept in cab-over-engine truck design
SO - Society of Automotive Engineers, Technical Paper No. 751017
IT - truck design; vehicle design; vehicle performance tests

74. AU - Ohtsubo, K.; Ward, E.D.
TI - A nonlinear automatic feedback blade controller for improved bulldozer performance
SO - Society of Automotive Engineers, Technical Paper No. 750819. Also published in SAE Transactions, Vol 84, 1975
IT - underwater equipment; vehicle dynamics; hydraulic systems

75. AU - Hoepfl, J.R.; Ballendux, G.M.
TI - Allis-Chalmers power shift transmission - a new option for the models 7040 and 7060 agricultural tractors
SO - Society of Automotive Engineers, Technical Paper No. 750858
IT - agricultural machinery; transmissions; truck tractors

76. AU - Bauer, P.T.; Servais, R.A.
TI - Criteria for choosing and evaluating aerodynamic devices for reducing fuel consumption of trucks
SO - Society of Automotive Engineers, Technical Paper No. 750701
IT - aerodynamics; fuel consumption; truck operation-truck performance

77. AU - Cottingham, E.R.
TI - An automatic transmission in line haul vehicles after two years of fleet evaluation
SO - Society of Automotive Engineers, Technical Paper No. 750730
IT - automatic transmissions; hauling; fleet operation

78. AU - Crowe, D.T., Sr.
TI - Six-by-six desert vehicle
SO - Society of Automotive Engineers, Technical Paper No. 750566
IT - vehicle design; vehicle performance; power transmission; power take-off; hydraulic systems; cooling systems

79. AU - Sisson, T.R.; Wiley, G.H.
TI - Use of dynamic modeling and analysis to cure ride quality problems
SO - Society of Automotive Engineers, Technical Paper No. 750078
IT - ride evaluation; vehicle performance tests

80. AU - McClelland, W.A.; Hay, J.K.; Klosterman, A.L.
TI - Frame design analysis under complete vehicle boundary conditions
SO - Society of Automotive Engineers, Technical Paper No. 741142
IT - frames; test equipment; truck design

81. AU - Topping, R.W.
TI - A primer on nonlinear, steady-state vehicle turning behavior

SO - Society of Automotive Engineers, Technical Paper No. 741096
IT - steering; suspension systems; tires

82. AU - Celeri, F.; Chiesa, A.
TI - A method for the evaluation of the lateral stability of vehicles and tires
SO - Society of Automotive Engineers, Technical Paper No. 741101
IT - vehicle performance tests; tires; test equipment; stability

83. AU - Grant, J.W.
TI - A technique for the validation of vehicle models using the road simulator
SO - Society of Automotive Engineers, Technical Paper No. 740945
IT - computer simulation; mathematical analysis; models; simulators

84. AU - Hodgetts, D.; Parkins, D.W.
TI - Vibration modes of an automobile driveline
SO - Society of Automotive Engineers, Technical Paper No. 740952. Also published in SAE Transactions, Vol. 83, 1974
IT - vibration; suspension systems; vehicle performance tests; damping

85. AU - Martz, J.W.; McClelland, W.A.; Lemon, J.R.
TI - Improved techniques for dynamic analysis of earthmoving equipment
SO - Society of Automotive Engineers, Technical Paper No. 740425. Also published in SAE Transactions, Vol. 83, 1974
IT - simulation; vehicle design; vehicle dynamics; vibration

86. AU - Wadleigh, K.H.
TI - Application of finite element methods to complete automobile structural design evaluation
SO - Society of Automotive Engineers, Proceedings No. P-52
IT - structural analysis; structures; vehicle performance tests; models

87. AU - Nagy, L.I.
TI - Static analysis via substructuring of an experimental vehicle front-end body structure
SO - Society of Automotive Engineers, Proceedings No. P-52
IT - bodies; structural analysis; structures; mathematical analysis

88. AU - Bernard, J.E.
TI - A digital computer method for the prediction of the directional response of trucks and tractors-trailers
SO - Society of Automotive Engineers, Technical Paper No. 740138. Also published in SAE Transactions, Vol. 83, 1974
IT - computer simulation; truck operation-truck performance; vehicle dynamics; vehicle performance

89. AU - Winkler, C.B.
TI - Analysis and computer simulation of the four elliptical leaf spring tandem suspension
SO - Society of Automotive Engineers, Technical Paper No. 740136. Also published in SAE Transactions, Vol. 83, 1974
IT - simulation; suspension systems; truck design; truck operation-truck performance

90. AU - Davenport, C.J.; Beard, R.A.
TI - Optimization of vehicle cooling systems
SO - Society of Automotive Engineers, Technical Paper No. 740089
IT - engine cooling; cooling systems; heat exchangers; design

91. AU - Tenkel, F.G.
TI - Computer simulation of automotive cooling systems
SO - Society of Automotive Engineers, Technical Paper No. 740087. Also published in SAE Transactions, Vol. 83, 1974
IT - computer simulation; automotive diagnosis; cooling; cooling systems

92. AU - Vail, C.F.
TI - Illustrations of automotive finite element models - dynamics
SO - Society of Automotive Engineers, Publication No. SP-387. Also published in SAE Transactions, Vol. 83, 1974
IT - data recording; cost analysis; automobile industry; frames

93. AU - Hazemoto, T.
TI - Analysis of lateral stability for doubles
SO - Society of Automotive Engineers, Technical Paper No. 730688
IT - stability; truck tractors; truck trailers; vehicle directional control

94. AU - Williams, A.
TI - Model 200CA specialized high-speed tracklaying logging vehicle
SO - Society of Automotive Engineers, Technical Paper No. 730703
IT - logging equipment

95. AU - Eshleman, R.L.; Scopelite, T.M.; Desai, S.
TI - Parameter studies in articulated vehicle handling
SO - Society of Automotive Engineers, Technical Paper No. 730673
IT - computer simulation; truck operation-truck performance; truck trailers; vehicle directional control

96. AU - Eshleman, R.L.; Desai, S.; Hanify, D.W.
TI - Analytical-experimental response of articulated vehicles
SO - Society of Automotive Engineers, Technical Paper No. 730674
IT - computer simulation; truck trailers; vehicle directional control

97. AU - Vincent, R.J.; Krauter, A.I.
TI - Tractor-semitrailer handling: a dynamic tractor suspension model

SO - Society of Automotive Engineers, Technical Paper No. 730653
IT - axles; computer simulation; suspension systems; truck tractors; vehicle dynamics

98. AU - Chalmers, W.G.
TI - A new concept in commercial vehicle suspension
SO - Society of Automotive Engineers, Technical Paper No. 730654
IT - rubber-synthetic rubber; suspension systems; truck design; truck trailers

99. AU - Herod, D.M.; Nelson, M.V.; Wang, W.M.
TI - An engine dynamometer system for the measurement of converter performance
SO - Society of Automotive Engineers, Technical Paper No. 730557
IT - dynamometers; emissions control; exhaust emissions

100. AU - Oldershaw, R.M.; Prestidge, A.F.; Birkmyre, R.C.
TI - Brake road testing in the laboratory
SO - Society of Automotive Engineers, Technical Paper No. 730563. Also published in SAE Transactions, Vol. 82, 1973
IT - brakes; disc brakes; dynamometers; friction materials; simulation

101. AU - Okada, T.; Takiguchi, T.; Nishioka, M.; Utsunomiya, G.
TI - Evaluation of vehicle handling and stability by computer simulation at the first state of vehicle planning
SO - Society of Automotive Engineers, Technical Paper No. 730525. Also published in SAE Transactions, Vol. 82, 1973
IT - computer simulation; stability; steering; tires; vehicle performance

102. AU - Speckhart, F.H.
TI - A computer simulation for three-dimensional vehicle dynamics
SO - Society of Automotive Engineers, Technical Paper No. 730526
IT - computer simulation; vehicle directional control; vehicle dynamics

103. AU - Borowski, V.J.; Steury, R.L.; Lubkin, J.L.
TI - Finite element dynamic analysis of an automotive frame
SO - Society of Automotive Engineers, Technical Paper No. 730506
IT - computer simulation; frames; structural analysis; vehicle dynamics

104 AU - Hickner, G.B.
TI - Dynamic behavior of recreational vehicles during braking and steering
SO - Society of Automotive Engineers, Technical Paper No. 730524
IT - brakes; computer simulation; steering; trailers; vehicle dynamics

105. AU - George, R.J.
TI - Determination of natural frequencies and mode shapes of chassis frames
SO - Society of Automotive Engineers, Technical Paper No. 730504
IT - computer applications; frames; models; vehicle dynamics; vibration

106. AU - Metz, L.D.; Sensenbrenner, K.
TI - The influence of roughness elements on laminar to turbulent boundary layer transition as applied to scale model testing of automobiles
SO - Society of Automotive Engineers, Technical Paper No. 730233
IT - aerodynamics; mathematical analysis; vehicle dynamics; wind tunnel testing

107. AU - Flanigan, D.L.
TI - Testing for an automotive frame to determine dynamic properties
SO - Society of Automotive Engineers, Technical Paper No. 730505
IT - computer simulation; damping; frames; models; structures; vehicle dynamics; vibration

108. AU - Brown, G.J.
TI - Aerodynamic disturbances encountered in highway passing situations
SO - Society of Automotive Engineers, Technical Paper No. 730234
IT - aerodynamics; vehicle directional control; vehicle safety; wind tunnel testing

109. AU - Hucho, W.H.; Emmelmann, H.J.
TI - Theoretical prediction of the aerodynamic derivatives of a vehicle in crosswind gusts
SO - Society of Automotive Engineers, Technical Paper No. 730232. Also published in SAE Transactions, Vol. 82, 1973
IT - aerodynamics; vehicle directional control

110. AU - Bueler, R.C.; Falk, E.J.
TI - A practical approach to the selection and sizing of brakes to meet FMVSS-121
SO - Society of Automotive Engineers, Technical Paper No. 730198
IT - air brakes; regulations

111. AU - Bernard, J.E.
TI - A digital computer method for the prediction of braking performance of trucks and tractor-trailers
SO - Society of Automotive Engineers, Technical Paper No. 730181. Also published in SAE Transactions, Vol. 82, 1973
IT - antiskid devices; axles; brakes; computer simulation; suspension systems; tires

112. AU - Olsson, G.R.
TI - Effects of tire slip on the handling performance of tractor-semitrailers in braking maneuvers
SO - Society of Automotive Engineers, Technical Paper No. 730184
IT - air brakes; antiskid devices; tires; truck trailers

113. AU - Weir, D.H.; McRuer, D.T.
TI - Measurement and interpretation of driver steering behavior and performance
SO - Society of Automotive Engineers, Technical Paper No. 730098
IT - driver behavior; driving simulators; vehicle directional control

114. AU - Seaberg, J.D.; Etter, J.R.; Records, L.R.
TI - Remotely piloted vehicle technology
SO - Society of Automotive Engineers, Technical Paper No. 720857
IT - aircraft instruments; radio equipment; remote control

115. AU - Krauter, A.I.; Wilson, R.K.
TI - Simulation of tractor-semitrailer handling
SO - Society of Automotive Engineers, Technical Paper No. 720922. Also published in SAE Transactions, Vol. 81, 1972
IT - computer simulation; tires; truck trailers; vehicle dynamics

116. AU - Butler, J.M.; Buerschinger, D.R.
TI - WABCO'S 200-ton truck electromechanical drive system
SO - Society of Automotive Engineers, Technical Paper No. 720754
IT - electric drives; mining equipment

117. AU - Poore, B.B.; Wright, G.; Romig, B.E.
TI - Evaluation technique - turbine engines and transmissions for off-road vehicles
SO - Society of Automotive Engineers Technical, Paper No. 720759
IT - computer simulation; transmissions; turbine engine controls

118. AU - Zorn, W.
TI - The WABCO 150-ton electric truck - facts and features
SO - Society of Automotive Engineers, Technical Paper No. 720374
IT - electric vehicles; mining equipment

119. AU - Kyropoulos, P.
TI - Human factors methodology in the design of the driver's workspace in trucks
SO - Society of Automotive Engineers, Publication No. SP-367. Also published in SAE Transactions, Vol. 81, 1972
IT - human engineering; simulators; truck design

120. AU - Locke, W.S.
TI - Evolution of an air suspension for trucks
SO - Society of Automotive Engineers, Technical Paper No. 720105
IT - suspension systems

121. AU - White, R.A.; Korst, H.H.
TI - The determination of vehicle drag contributions from coast-down tests
SO - Society of Automotive Engineers, Technical Paper No. 720099. Also published in SAE Transactions, Vol. 81, 1972
IT - aerodynamics; mathematical analysis; tests; tires; vehicle performance tests; wind tunnel testing

122. AU - Koch, L.G.
TI - Power train-vehicle modeling to simulate shifting transients of off-highway vehicles
SO - Society of Automotive Engineers, Technical Paper No. 720044. Also published in SAE Transactions, Vol. 81, 1972
IT - clutches; computer simulation; power transmission; ride evaluation; transmissions; vehicle dynamics; vibration

123. AU - Davis, J.C.
TI - Modal modeling techniques for vehicle shake analysis
SO - Society of Automotive Engineers, Technical Paper No. 720045
IT - computer simulation; structural analysis; vehicle dynamics; vibration

124. AU - Fujiwara, Y.; Nakayasu, M.
TI - An analysis of vibrational modes of vehicle steering mechanisms
SO - Society of Automotive Engineers, Technical Paper No. 710627
IT - steering; suspension systems; tires; vibration

125. AU - Wollam, J.M.
TI - Generalized tracked and wheeled vehicle automotive performance model
SO - Society of Automotive Engineers, Technical Paper No. 710628
IT - computer simulation; vehicle performance

126. AU - Pershing, R.L.
TI - Simulating tractive performance
SO - Society of Automotive Engineers, Technical Paper No. 710525
IT - computer simulation; vehicle performance

127. AU - Unruh, D.H.
TI - Determination of wheel loader static and dynamic stability
SO - Society of Automotive Engineers, Technical Paper No. 710526
IT - computer simulation; construction equipment design; vehicle dynamics

128. AU - McHenry, R.R.
TI - Research in automobile dynamics - a computer simulation of general three-dimensional motions
SO - Society of Automotive Engineers, Technical Paper No. 710361. Also published in SAE Transactions, Vol. 80, 1971
IT - brakes; computer simulation; suspension systems; tires; vehicle dynamics

129. AU - Dornfeld, K.A.
TI - Transmission transients produced in range shifting - a digital computer simulation
SO - Society of Automotive Engineers, Technical Paper No. 710246
IT - automatic transmissions; computer simulation

130. AU - Kurajian, G.M.; Burr, H.
TI - An analog computer method for determining "g" loads and resulting motions in automobile and truck wheel-frame systems
SO - Society of Automotive Engineers, Technical Paper No. 710165
IT - computer simulation; suspension systems

131. AU - Van Deusen, B.D
TI - Truck suspension system optimization
SO - Society of Automotive Engineers, Technical Paper No. 710222. Also published in SAE Transactions, Vol. 80, 1971
IT - computer simulation; military vehicles; suspension systems

132. AU - Hickner, G.B.; Elliott, J.G.; Cornell, G.A.
TI - Hybrid computer simulation of the dynamic response of a vehicle with four-wheel adaptive brakes
SO - Society of Automotive Engineers, Technical Paper No. 710225
IT - brakes; computer simulation; vehcile dynamics

133. AU - Murphy, R.W.; Limpert, R.; Segel, L.
TI - Development of braking performance requirements for buses, trucks, and tractor-trailers
SO - Society of Automotive Engineers, Technical Paper No. 710046. Also published in SAE Transactions, Vol. 80, 1971
IT - brakes; bus operation-bus performance; truck operation-truck performance

134. AU - Daberkoe, C.W.
TI - The vehicle application of tire/wheel rolling smoothness controls
SO - Society of Automotive Engineers, Technical Paper No. 710088
IT - tires; wheels

135. AU - Mikulcik, E.C.
TI - The dynamics of tractor-semitrailer vehicles: the jackknifing problem
SO - Society of Automotive Engineers, Technical Paper No. 710045. Also published in SAE Transactions, Vol. 80, 1971
IT - brakes; suspension systems; tires, truck trailers; vehicle dyanmics

136. AU - Selna, L.; Salinas, D.
TI - Dynamic analysis of automotive structural systems
SO - Society of Automotive Engineers, Technical Paper No. 700844. Also published in SAE Transactions, Vol. 79, 1970
IT - crash research; mathematical analysis; structural analysis; vehicle dynamics

137. AU - Landon, G.W.
TI - Model 10 brake test instrument
SO - Society of Automotive Engineers, Proceedings No. P-30
IT - brakes; test equipment

138. AU - Figart, W.T.; Leisenring, R.L.; Silvestri, W.B.
TI - The RC engine - a new approach to reduce costs
SO - Society of Automotive Engineers, Technical Paper No. 700273
IT - cost analysis; rotary combustion engines

139. AU - Bergman, W.
TI - Effects of compliance on vehicle handling properties
SO - Society of Automotive Engineers, Proceedings No. P-30
IT - steering; vehicle directional control

140. AU - Hickner, G.B.; Howard, D.W.
TI - Analog simulation as a design tool for advanced braking concepts
SO - Society of Automotive Engineers, Technical Paper No. 700157
IT - brakes; computer simulation

141. AU - Okada, T.; Sagishima, T.
TI - Effect of tractive force on directional stability and controllability of vehicles
SO - Society of Automotive Engineers, Technical Paper No. 690527
IT - front wheel drive; steering; tires; vehicle directional control

142. AU - Julien, C.A.; Hung, H.M.
TI - Technique in system identification for dynamic mechanical systems
SO - Society of Automotive Engineers, Technical Paper No. 690497
IT - computer simulation; mathematical analysis; models; suspension systems

143. AU - Kohno, T.; Tsuchiya, S.; Komoda, N.
TI - On the vehicle dynamic response to the steering control: experimental evaluation of the response and analytical approach to the design of the Performance with seven degree model
SO - Society of Automotive Engineers, Technical Paper No. 690488
IT - steering, suspension systems; tests; tires; vehicle directional control

144. AU - Gray, J.T., Jr.
TI - Soil bin scale-model testing
SO - Society of Automotive Engineers, Technical Paper No. 690357
IT - construction equipment design; dimensional analysis; models; test facilities

145. AU - Gelb, G.H.; Richardson, N.A.; Wang, T.C.; DeWolf, R.S.
TI - Design and performance characteristics of hybrid vehicle power train

SO - Society of Automotive Engineers, Technical Paper No. 690169
IT - batteries; computer simulation; electric vehicles; vehicle design

146. AU - Howe, G.H.; Wells, C.G.
TI - The air-cell suspension system - a solution to off-road mobility problems
SO - Society of Automotive Engineers, Technical Paper No. 690152
IT - computer simulation; military vehicles; suspension systems

147. AU - Herling, W.R.; Markow, E.G.
TI - Elliptical wheel concepts
SO - Society of Automotive Engineers, Technical Paper No. 690153
IT - military vehicle mobility; wheels

148. AU - Walther, W.D.; Gossard, D.; Fensel, P.
IT - Truck ride - a mathematical and empirical study
SO - Society of Automotive Engineers, Technical Paper No. 690099.
Also published in SAE Transactions, Vol. 78, 1969
IT - ride evaluation

149. AU - Herman, A.
TI - Underwater navigation and reconnaissance trainer
SO - Society of Automotive Engineers, Technical Paper No. 690029
IT - simulators; underwater vehicles

150. AU - Williamson, S.O.
TI - Vehicle drive-line dynamics
SO - Society of Automotive Engineers, Technical Paper No. 680584
IT - computer simulation; data acquisition; shock; transmissions; vehicle dynamics; vibration

151. AU - Moesta, A.W., Jr.
TI - Modern development of mechanical spring truck seating
SO - Society of Automotive Engineers, Technical Paper No. 670044
IT - seats; springs

152. AU - Forsyth, R.W.; Forsyth, J.P.
TI - Design and development of the TerraStar marginal-terrain amphibian
SO - Society of Automotive Engineers, Technical Paper No. 680535.
Also published in SAE Transactions, Vol. 77, 1968
IT - amphibious vehicles; military vehicles

153. AU - Goodenow, G.L.; Kolhoff, T.R.; Smithson, F.D.
TI - Tire-road friction measuring system - a second generation
SO - Society of Automotive Engineers, Technical Paper No. 680137.
Also published in SAE Transactions, Vol. 77, 1968
IT - data processing; friction; roads; test equipment

154. AU - Hoppe, C.H.
TI - Design for the rough terrain environment
SO - Society of Automotive Engineers, Technical Paper No. 680098
IT - computer applications; military vehicle mobility; mobility research; vehicle dynamics

155. AU - Segel, L.; Murphy, R.W.
TI - Dynamic modeling in engineering
SO - Society of Automotive Engineers, Proceedings No. P-21. Also published in SAE Transactions, Vol. 76, 1968
IT - aerodynamics; assisted take-off and landing; computer simulation; rotor blades; vibration

156. AU - Chiesa, A.; Rinonapoli, L.
TI - Vehicle stability studied with a non-linear seven degree model
SO - Society of Automotive Engineers, Technical Paper No. 670476. Also published in SAE Transactions, Vol. 76
IT - mathematical analysis; stability; steering; suspension systems; tires; vehicle directional control

157. AU - Hamann, W.C.
TI - Analytical prediction of vehicle handling behavior
SO - Society of Automotive Engineers, Technical Paper No. 670192
IT - computer simulation; models; vehicle directional control

158. AU - Ehrlich, I.R.
TI - Place of model tests in vehicle development
SO - Society of Automotive Engineers, Technical Paper No. 670169
IT - military vehicles; mobility research; models; operations research; tests

159. AU - Nordeen, D.L.
TI - Analysis of tire lateral forces and interpretation of experimental tire data
SO - Society of Automotive Engineers, Technical Paper No. 670173. Also published in SAE Transactions, Vol. 76
IT - models; tires; vehicle directional control

160. AU - McKenzie, R.D.; Howell, W.M.; Skaar, D.E.
TI - Computerized evaluation of driver-vehicle-terrain systems
SO - Society of Automotive Engineers, Technical Paper No. 670168. Also published in SAE Transactions, Vol. 76
IT - computer simulation; military vehicles; mobility research; models; vibration

161. AU - Gross, D.S.; Sekscienski, W.S.
TI - Some problems concerning wind tunnel testing of automotive vehicles
SO - Society of Automotive Engineers, Technical Paper No. 660385. Also published in SAE Transactions, Vol. 75
IT - wind tunnel testing; aerodynamics; models; vehicle performance

162. AU - Van Deusen, B.D.
TI - Analytical techniques for designing riding quality into automotive vehicles
SO - Society of Automotive Engineers, Technical Paper No. 670021. Also published in SAE Transactions, Vol. 76
IT - computer simulation; vibration

163. AU - Sponsler, W.B.
TI - Preliminary mobility tests of a scale model lunar roving vehicle
SO - Society of Automotive Engineers, Technical Paper No. 660147
IT - lunar vehicles; mobility research; soil mechanics; suspension systems

164. AU - Saibel, E.; Tsao, M.C.
TI - Further investigations in vehicle dynamics
SO - Society of Automotive Engineers, Technical Paper No. 700173
IT - suspension systems; vehicle dynamics

165. AU - Kronogard, S.O.; Rosen, C.G.A.
TI - Matching gas turbine propulsion systems to vehicles
SO - Society of Automotive Engineers, Technical Paper No. 680539
IT - transmissions; turbine engines; turbine trucks

166. AU - Dugoff, H.; Fancher, P.S.; Segel, L.
TI - An analysis of tire traction properties and their influence on vehicle dynamic performance
SO - Society of Automotive Engineers, Proceedings No. P-30. Also published in SAE Transactions, Vol. 79, 1970
IT - computer simulation; tires

167. AU - Bartlett, G.E.; Belsdorf, M.R.; Deutschman, J.N.; Smith, R.L.
TI - On the prediction of off-road vehicle system mobility
SO - Society of Automotive Engineers, Technical Paper No. 690150. Also published in SAE Transactions, Vol. 78, 1969
IT - computer simulation; military vehicle mobility

168. AU - Heffley, R.K.
TI - Aerodynamics of passenger vehicles in close proximity to trucks and buses
SO - Society of Automotive Engineers, Techncial Paper No. 730235. Also published in SAE Transactions, Vol. 82, 1973
IT - aerodynamics; bus design; vehicle dynamics; wind tunnel testing

169. AU - Orlandea, N.; Chace, M.A.
TI - Simulation of a vehicle suspension with the ADAMS computer program
SO - Society of Automotive Engineers, Technical Paper No. 770053
IT - computer applications; computer simulation

170. AU - Shryock, R.A.; Klahs, J.W.; Dieterich, D.A.
TI - System modeling techniques to improve the ride and vibration isolation characteristics of heavy equipment
SO - Society of Automotive Engineers, Proceedings No. P-71
IT - computer simulation; vehicle dynamics; vibration

171. AU - Sloss, D.A., Jr.; Brady, P.M., Jr.
TI - Evaluation of the Landing Vehicle Assault (LVA) over-land performance
SO - Society of Automotive Engineers, Technical Paper No. 780127
IT - military vehicle mobility; models; amphibious vehicles; soil mechanics; mobility research

172. AU - Gurney, J.W.; Bernard, J.E.
TI - The utilization of a computer simulation as an aid to Predict compliance with MVSS 121
SO - Society of Automotive Engineers, Technical Paper No. 740137. Also published in SAE Transactions, Vol. 83, 1974
IT - simulation

173. AU - Lippmann, S.A.; Oblizajek, K.L.
TI - Lateral forces of passenger tires and effects on vehicle response during dynamic steering
SO - Society of Automotive Engineers, Technical Paper No. 760033. Also published in SAE Transactions, 1976
IT - tires; mathematical analysis

174. AU - Nuttall, C.J., Jr.; Rula, A.A.; Dugoff, H.J.
TI - Computer model for comprehensive evaluation of cross-country vehicle mobility
SO - Society of Automotive Engineers, Technical Paper No. 740426. Also published in SAE Transactions, Vol. 83, 1974
IT - automobile industry; reliability; control systems; vehicle safety

175. AU - Grotewohl, A.
TI - Suspension and steering of the VW 411 model year 1969
SO - Society of Automotive Engineers, Technical Paper No. 690489
IT - steering; suspension systems

176. AU - Bickerstaff, D.J.
TI - The handling properties of light trucks
SO - Society of Automotive Engineers, Technical Paper No. 760710
IT - suspension systems; truck design; truck operation-truck performance; vehicle dynamics

177. AU - Watson, C.G.
TI - The determination of the "Ride Transfer" characteristic for a stationary, transiently excited motor vehicle
SO - Society of Automotive Engineers, Technical Paper No. 710286
IT - computer simulation; ride evaluation; vibration

178. AU - Cortese, A.D.; Rockafellow, C.S.
TI - General Motors proving ground tire cornering test vehicle
SO - Society of Automotive Engineers, Technical Paper No. 710092. Also published in SAE Transactions, Vol. 80, 1971
IT - test equipment; tires

179. AU - Harrison, W.L.; Knight, S.J.; Liston, R.A.
TI - Vehicle performance over snow; math-model validation study
SO - U.S. Army Cold Regions Research and Engineering Laboratory, Report Number TR 268, Dec 1975, 84 p, 11 refs. Includes as App. C, USAEWES methodology for predicting vehicle performance in subarctic snows by S.J. Knight, and, as App. D, Land Locomotion Laboratory method of prediction of shallow and deep snow vehicle performance by R.A. Liston
LA - Eng
IT - vehicles; snow mechanics; snow depth; mathematical models; tracked vehicles; vehicle wheels

180. AU - Wong, L.T.; Clemens, W.J.
TI - Power train matching for better fuel economy
SO - Society of Automotive Engineers, Technical Paper No. 790045
IT - fuel economy; computer simulation; exhaust emissions; vehicle performance; computer applications

181. AU - Muto, S.; Ishihara, T.
TI - The J.A.R.I. full-scale wind tunnel
SO - Society of Automotive Engineers, Technical Paper No. 780336
IT - aerodynamics; test equipment; vehicle performance tests: instruments; test facilities

182. AU - Freitag, D.R.
TI - Soil is an engineering material
SO - Society of Automotive Engineers, Technical Paper No. 710511
IT - soil mechanics

183. AU - Scholl, R.D.
TI - Stability analysis of an articulated steering system
SO - Society of Automotive Engineers, Technical Paper No. 710527
IT - electrohydraulic effect; steering

184. AU - Van Dorn, J.W.; Goldberg, G.L.
TI - Frame stress analysis with programmed load wheel inputs via plastic models
SO - Society of Automotive Engineers, Technical Paper No. 710596
IT - computer simulation; frames; models; passenger car design

Chapter X - Air cushion vehicles.

Chapter X

1. AU - McMorran, J.B.
TI - New York State's role in meeting total transportation needs
SO - Society of Automotive Engineers, Technical Paper No. 690383
IT - highways; transportation

2. AU - Fielding, P.G.
TI - Procedure for assessing the air cushion vehicle with other off-road vehicles
SO - Society of Automotive Engineers, Publication No. SP-261. Also published in SAE Transactions Vol. 74
IT - ground effect machines; military vehicles; operations research; systems engineering

3. AU - Chaplin, J.B.; Eggington, W.J.
TI - New York City and the air cushion vehicle - the challenge to the engineer
SO - Society of Automotive Engineers, Technical Paper No. 650418
IT - ground effect machines

4. AU - Douglas, O.; Burr, C.E.
TI - Potential of the air cushion vehicle for off-road mobility
SO - Society of Automotive Engineers, Technical Paper No. 690148
IT - amphibious vehicles; ground effect machines; military vehicle mobility; mobility research

5. AU - Brown, M.W.
TI - Navy application of the ACV to amphibious operations
SO - Society of Automotive Engineers, Technical Paper No. 700840
IT - amphibious vehicles; ground effect machines

6. AU - Wigotsky, V.W.
TI - The pressure for transportation balance
SO - Society of Automotive Engineers, Technical Paper No. 700187
IT - transportation

7. AU - House, W.C.; Eggington, W.J.; Lysdale, C.A.
TI - Evolution of the air cushion
SO - Society of Automotive Engineers, Technical Paper No. 710182
IT - ground effect machines

8. AU - Garner, A.M.
TI - The design and operational experience of the TTI T4x ACV in northern Canada
SO - Society of Automotive Engineers, Technical Paper No. 710186
IT - amphibious vehicles; ground effect machines

9. AU - Sullivan, P.A.
TI - A review of the status of the technology of the air cushion vehicle
SO - Society of Automotive Engineers, Technical Paper No. 710183.

Also published in SAE Transactions, Vol. 80, 1971
IT - ground effect machines

10. AU - Moore, R.G.
TI - The fundamentals of ACV habitability and ride characteristics
SO - Society of Automotive Engineers, Technical Paper No. 710534
IT - ground effect machines; suspension systems

11. AU - Wu, Y.
TI - A new pollution free tracked air cushion, air driven rapid transit vehicle
SO - Society of Automotive Engineers, Proceedings No. P-44
IT - ground effect machines; rapid transit

12. AU - Harder, A.
TI - Airdraulic seat system
SO - Society of Automotive Engineers, Technical Paper No. 720915
IT - seats

13. AU - Garnault, A.
TI - Technical and economical results of the use of air cushion in guided ground transportation
SO - Society of Automotive Engineers, Technical Paper No. 730161
IT - ground effect machines; monorails; suspension systems

14. AU - Liston, R.A.
TI - Air cushion vehicle operations in Arctic and Subarctic terrain
SO - Society of Automotive Engineers, Technical Paper No. 730038
IT - cold weather operation; ground effect machines; human performance; military equipment; military transportation

15. AU - Latvala, E.K.
TI - The TTI Hovair PRT System
SO - Society of Automotive Engineers, Technical Paper No. 730162
IT - electric vehicles; ground effect machines; rapid transit

16. AU - Hearn, D.L.; Van Dorn, N.H.
TI - Modern transportation systems
SO - Society of Automotive Engineers, Technical Paper No. 740225
IT - transportation; rapid transit; systems engineering

17. AU - Nodell, W.R., Seely, J.H.
TI - A chronology and development status of the amphibious assault landing craft JEFF(A)
SO - Society of Automotive Engineers, Technical Paper No. 750717
IT - aerospace production; automatic control; design; steels; nondestructive testing; all-terrain vehicles; ground effect machines; military transportation; military vehicle mobility

18. AU - Perez, D.J.
TI - The development and flight testing of the XC-8A Air Cushion Landing System (ACLS)
SO - Society of Automotive Engineers, Technical Paper No. 760920
IT - ground effect machines; aircraft design; landing gear; aircraft operation-aircraft performance; amphibious vehicles

19. AU - O'Neill, E.B.
TI - Landing Vehicle Assault (LVA)
SO - Society of Automotive Engineers, Technical Paper No. 770340
IT - military vehicles; stratified charge engines