U.S. Department of Commerce
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National Technical Reports Library

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Winter Driving Safety

PB2012102712
Developments in Weather Responsive Traffic Management Strategies: Final Report. (April 2009-June 2011).
Battelle Washington Operations, DC.
2011, 254p
FHWA-JPO-11-086
Related Categories/Sub-Categories:
43G (Transportation)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
85H (Road Transportation)
88B (Information Systems)
91B (Transportation & Traffic Planning)
Keywords: Traffic management strategies, Weather impacts, Road Weather Management.

PB2012102713
Developments in Weather Responsive Traffic Management Strategies: Summary Report: 1st National Workshop and Stakeholder Meeting on Weather Responsive Traffic Management (WRTM).
Battelle Washington Operations, DC.
2011, 27p
Related Categories/Sub-Categories:
43G (Transportation)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
85H (Road Transportation)
88B (Information Systems)
91B (Transportation & Traffic Planning)
Keywords: Traffic management strategies, Weather impacts, Road Weather Management.

PB2012102709
Human Factors Analysis of Road Weather Advisory and Control Information: Final Report.
Battelle-Seattle Research Center, WA. Meridian Environmental Technology, Inc., Grand Forks, ND. Texas Transportation Inst., College Station.
2010, 301p
FHWA-JPO-10-053
Related Categories/Sub-Categories:
43G (Transportation)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
95D (Human Factors Engineering)
Keywords: Human factors engineering, Weather information dissemination, Road weather information.

PB2007110738
Guidelines for the Selection of Snow and Ice Control Materials to Mitigate Environmental Impacts.
Levelton (B.H.) and Associates Ltd., Vancouver (British Columbia).
2007, 211p
NCHRP-577
Related Categories/Sub-Categories:
48H (Snow, Ice, & Permafrost)
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Snow and ice control, Roads and Highways, Environmental impacts.

PB2004103526
Optimization of Anti-Icing and Sanding Operations via Mobile Data Collision in Southeast Alaska.
Alaska Dept. of Transportation and Public Facilities, Fairbanks. ThomTech Design, Saint Paul, MN.
2003, 59p
Related Categories/Sub-Categories:
43G (Transportation)
48H (Snow, Ice, & Permafrost)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Deicing materials, Anti-icing additives, Sanding.

Newsletter
National Technical Reports Library
Purpose: To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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Alexandria, VA 22312

PB2005102819
Avalanche Hazard Reduction Using the Dopplemayr 'Avalanche Guard' Cache and Mortar Technology.
Winter Alpine Engineering, Mariposa, CA.
2004, 92p
FHFWA/WY-05/02F
Related Categories/Sub-Categories:
48H (Snow, Ice, & Permafrost)
79A (Ammunition, Explosives, & Pyrotechnics)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Avalanches, Accident reduction, Snow.

PB2006100534
Avalanche Hazard Reduction Using Wind Drift Disrupters (Snow Sails) Phase I and Phase II.
MSI-Foothill/InterAlpine, Sedona, AZ.
2005, 60p
FHWA/WY-05/05F
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Avalanches, Snow sails, Wind slabs.

PB2004106283
Cable Guardrail (Interim Report).
Colorado Dept. of Transportation, Denver. Research Branch.
2004, 28p
CDOT-DTD-R-2004-10
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Drifting snow, Guardrails, Accidents.

Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

NTIS Order Number
Title
Source
Report Year, Page Count
Report Number/ISBN13 (if available)
Related Categories/Sub-categories (where the document is also indexed)
Keywords

RSS Feeds are available in your choice of NTIS Subject Category. For information use the RSS link on the NTIS Homepage and look for the Category RSS Feeds button.

PB2005101362
Snow and Ice Control: Guidelines for Materials and Methods.
Midwest Research Inst., Kansas City, MO. AFM, Inc., White Plains, NY. Weather Solutions Group, Chesterfield, MO.
2004, 54p
NCHRP-526
Related Categories/Sub-Categories:
43G (Transportation)
48H (Snow, Ice, & Permafrost)
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Snow removal, Ice removal, Winter driving.

PB2003106811
Statewide/Rural Intelligent Transportation Systems (ITS): Operations and Maintenance 2002 Survey.
Federal Highway Administration, Washington, DC. ITS Joint Program Office.
2003, 16p
Related Categories/Sub-Categories:
91B (Transportation & Traffic Planning)
43G (Transportation)
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Ice removal, Deicing, Intelligent Transportation Systems.

PB2003102167
Safety and Maintenance Services. Maintenance.
Transportation Research Board, Washington, DC.
2002, 118p
TRB/TRR-1794
ISBN-0-309-07720-6
See also PB2002-100034.
Related Categories/Sub-Categories:
43G (Transportation)
50A (Highway Engineering)
91B (Transportation & Traffic Planning)
85D (Transportation Safety)
85H (Road Transportation),
Keywords: Highway maintenance, Winter, Work zone safety.

PB2002105699
Arttu Progress Report 1.
Helsinki Univ. of Technology, Espoo (Finland). Lab. of Automotive Technology.
2001, 50p
ISBN-951-22-5672-X
Related Categories/Sub-Categories:
85D (Transportation Safety)
85H (Road Transportation)
94K (Laboratory & Test Facility Design & Operation)
Keywords: Friction tests, Tire traction, Arctic driving.

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PB2002100034
Transportation Work-Zone Safety and Winter Services. Maintenance. Transportation Research Record. Journal of the Transportation Research Board No. 1745.
Transportation Research Board, Washington, DC.
2001, 77p
ISBN-0-309-07203-4
See also PB2003-102167.
Related Categories/Sub-Categories:
43G (Transportation)
50A (Highway Engineering)
91B (Transportation & Traffic Planning)
85D (Transportation Safety)
85H (Road Transportation),
Keywords: Highway maintenance, Winter, Work zone safety.

PB2006109778
Evaluation of Deicer Applications on Open Graded Pavements.
Oregon Dept. of Transportation, Salem. Research Unit.
2006, 48p
FHWA-OR-RD-06-12
Related Categories/Sub-Categories:
50C (Construction Equipment, Materials, & Supplies)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
99F (Physical & Theoretical Chemistry)
Keywords: Deicers, Skid resistance, Winter maintenance.

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Major Subject Categories

Category Codes* / Title		New for December Quantity**
41	Manufacturing Technology	34
43	Problem Solving Information for State & Local Governments	251
44	Health Care	214
45	Communication	42
46	Physics	163
47	Ocean Sciences & Technology	200
48	Natural Resources & Earth Sciences	217
49	Electrotechnology	31
50	Civil Engineering	98
51	Aeronautics & Aerodynamics	59
54	Astronomy & Astrophysics	44
55	Atmospheric Sciences	137
57	Medicine & Biology	461
62	Computers, Control & Information Theory	113
63	Detection & Countermeasures	56
68	Environmental Pollution & Control	266
70	Administration & Management	347
71	Materials Sciences	97
72	Mathematical Sciences	48
74	Military Sciences	244
75	Missile Technology	2
76	Navigation, Guidance, & Control	15
77	Nuclear Science & Technology	131
79	Ordnance	32
81	Combustion, Engines, & Propellants	20
82	Photography & Recording Devices	6
84	Space Technology	126
85	Transportation	163
88	Library & Information Sciences	50
89	Building Industry Technology	41
90	Government Inventions for Licensing	0
91	Urban & Regional Technology & Development	207
92	Behavior & Society	367
94	Industrial & Mechanical Engineering	47
95	Biomedical Technology & Human Factors	44
96	Business & Economics	275
97	Energy	178
98	Agriculture & Food	172
99	Chemistry	129

** For a listing of Scope Notes that defines the specific topical content for each category, go to http://www.ntis.gov/assets/pdf/scopenotes.pdf*

*** Quantities represent each new report assigned on average to 3-5 categories.*

PB2002104755
Automated Road Closure Gate.
South Dakota School of Mines and Technology, Rapid City.
2000, 31p
SD2000-11-F
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Remote control, Winter driving, Highway closures.

PB2012102711
Seasons of Achievement: Accomplishments of the Road Weather Management Program.
Department of Transportation, Washington, DC. Research & Innovative Technology Administration (RITA).
2010, 12p
FHWA-JPO-10-004
Related Categories/Sub-Categories:
43G (Transportation)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Roadway operations, Adverse weather, Winter maintenance.

PB2000106088
Valtion Teknillinen Tutkimuskeskus, Espoo (Finland). Communities and Infrastructure, Transport and Urban Planning.
1999, 170p
VTT-PUBS-401, ISBN-951-38-5546-5
Related Categories/Sub-Categories:
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Traffic safety, Motor vehicle accidents, Winter driving.

Subject Category Codes/Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character.The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

PB2002104913
Mobility and Safety Impacts of Winter Storm Events in a Freeway Environment. CTRE Project 98-39.
Center for Transportation Research and Education, Ames, IA.
2000, 86p
Related Categories/Sub-Categories:
43G (Transportation)
48H (Snow, Ice, & Permafrost)
91B (Transportation & Traffic Planning)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Snowstorms, Snow, Icy road conditions.

PB2001101423
Pavement Monitoring and Interface System to Implement Traffic Signal Timing Plan Changes for Winter Driving; Phase 1.
Wyoming Dept. of Transportation, Cheyenne. Programming Research Unit. Federal Highway Administration, Cheyenne, WY. Wyoming Div.
2000, 38p
FHWA/WY-00/03F
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Traffic signal timing, Pavement conditions, Traffic management.

PB2010104680
Influence of Roadway Surface Discontinuities on Safety. A State of the Art Report, May 2009.
Transportation Research Board, Washington, DC.
2009, 88p
TRB/E-C-134
See also PB85-114296.
Related Categories/Sub-Categories:
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Pavements, Traffic safety, Ice formation.

Photo: Architect of the Capitol

PB2009102365
Work Zones and Maintenance Operations. Transportation Research Record. Journal of the Transportation Research Board No. 2055.
Transportation Research Board, Washington, DC.
2008, 156p
TRB-TRR-2055
ISBN-978-0-309-11325-0
Related Categories/Sub-Categories:
43G (Transportation)
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Work zones, Traffic control, Winter maintenance.

PB2010100133
Safety Maintenance and Surface Weather: Transportation Research Record: Journal of the Transportation Research Board, No. 2107.
Transportation Research Board, Washington, DC.
2009, 162p
TRB-TRR-2107
Related Categories/Sub-Categories:
50A (Highway Engineering)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
85D (Transportation Safety)
85H (Road Transportation)

PB2010100916
Performance Measurement for Highway Winter Maintenance Operations.
Iowa Univ., Iowa City. IIHR-Hydroscience and Engineering.
2009, 129p
IHRB-PROJ-TR-491
Related Categories/Sub-Categories:
43G (Transportation)
48H (Snow, Ice, & Permafrost)
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Highway maintenance, Traffic safety, Winter maintenance.

PB99165185
Evaluation of Winter Maintenance Material Metering and Placement Equipment.
Maine Dept. of Transportation, Augusta. Transportation Research Div.
1999, 92p
ME-97-7
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Snow removal, Ice removal, Icy road conditions.

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PB2011100293
Maintenance Services and Surface Weather. Transportation Research Record: Journal of the Transportation Research Board, No. 2169.
2010, 197p
TRB-TRR02169
ISBN 978-0-309-16038-4
Related Categories/Sub-Categories:
50A (Highway Engineering)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Traffic control, Highway maintenance, Weather.

PB86101862
Evaluation of the Salt Brine Deicing Unit for Snow and Ice Removal in Utah.
Utah Dept. of Transportation, Salt Lake City. Research and Development Unit.
1984, 58p
UDOT-MR-84-1
Related Categories/Sub-Categories:
48H (Snow, Ice, & Permafrost)
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Deicing, Snow removal, Ice prevention.

PB85114296
Influence of Roadway Surface Discontinuities on Safety.
Transportation Research Board, Washington, DC.
1984, 56p
ISBN-0-309-03702-6
Related Categories/Sub-Categories:
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Pavements, Surface roughness, Ice formation.

PB98141187
Cost-Effective Microwave Sensing of Highway Road Conditions.
Wyoming Univ., Laramie. Dept. of Electrical Engineering.
1998, 24p
TRB/NCHRP-ID031
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Highway transportation, Road conditions, Remote sensing.

PB2011104624
Evaluation of the Utah DOT Weather Operations/ RWIS Program on Traffic Operations.
Montana State Univ., Bozeman. Western Transportation Inst.
2009, 54p
See also PB2008-101287.
Related Categories/Sub-Categories:
43G (Transportation)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
85D (Transportation Safety)
85H (Road Transportation)
88B (Information Systems)
91B (Transportation & Traffic Planning)
Keywords: Weather forecasts, Traffic operations, Road weather information Systems (RWIS).

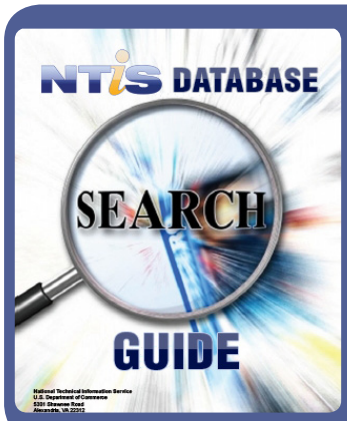
PB89113468
Evaluation of the Accuracy, Reliability, Effectiveness, Expansibility, and Additional Potential Benefits of the SCAN 16 EF Moisture, Frost and Ice Early Warning System.
New Jersey Dept. of Transportation, Trenton.
1988, 48p
R-88-003-7750
Related Categories/Sub-Categories:
48H (Snow, Ice, & Permafrost)
50A (Highway Engineering)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
85D (Transportation Safety)
85H (Road Transportation)
91I (Emergency Services & Planning)
Keywords: Weather forecasting, Snow removal, Ice control.

PB90246760
Synthesis of Safety Research: Adverse Environmental Conditions.
Parker (Martin R.) and Associates, Inc., Wayne, MI.
1990, 49p
FHWA/TS-89/046
Related Categories/Sub-Categories:
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Highway safety, Ice, Disasters.

PB2011105782
Snow Rendering for Interactive Snowplow Simulation-Supporting Safety in Snowplow Design, February 2011.
Minnesota Univ.-Duluth. Dept. of Computer Science.
2011, 38p
CTS 11-04
Related Categories/Sub-Categories:
43G (Transportation)
48H (Snow, Ice, & Permafrost)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Snow rendering, Snowplow safety, Vehicle lighting.

PB2012100332
Snow Rendering for Interactive Snowplow Simulation – Supporting Safety in Snowplow Design, October 2011.
Minnesota Univ.-Duluth. Dept. of Computer Science.
2011, 61p
CTS-11-23
Related Categories/Sub-Categories:
43G (Transportation)
48H (Snow, Ice, & Permafrost)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Snow rendering, Snowplow safety, Vehicle lighting.

PB88141825
Performance of Trucks Braking on Ice.
Michigan Univ., Ann Arbor. Transportation Research Inst.
1987, 201p
UMTRI-87-23
FHWA/MC-88/045
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Truck performance, Braking, Ice.



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PB89128284
Chemistry of Deicing Roads: Penetrating the Ice.
Minnesota Univ., Minneapolis. Dept. of Chemical Engineering and Materials Science.
1988, 27p
UM-TOC-25
MN/RC-88/6
Related Categories/Sub-Categories:
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
99F (Physical & Theoretical Chemistry)
Keywords: Deicing, Deicers, Ice prevention.

PB98147200
Traffic Safety Digest: A Compendium of Innovative State and Community Traffic Safety Projects, Winter 1998.
National Highway Traffic Safety Administration, Washington, DC.
1998, 72p
See also PB98-102445.
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
88E (Reference Materials)
91B (Transportation & Traffic Planning)
Keywords: Motorcycle safety, Pedestrian safety, Bicycle safety.

PB90199639
Snowplow Lighting Study.
Federal Highway Administration, St. Paul, MN. Minnesota Div.
1989, 58p
MN/RD-89/03
Related Categories/Sub-Categories:
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Motor vehicle accidents, Vehicle lighting, Snow plows.

PB96150529
Maintenance Management and Safety.
Transportation Research Board, Washington, DC.
1995, 88p
TRB/TRR-1509
ISBN-0-309-06205-5
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Traffic management, Truck drivers, Ice.

PB90132598
Tire Chain Effectiveness Study: Report to the Legislature.
California Highway Patrol, Sacramento.
1989, 142p
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Tire chains, Studded tires, Snow tires.

PB93216323
Evaluating the Potential of Remote Sensing Rural Road and Travel Conditions.
1992, 80p
MPC-92-10
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Rural highways, Road conditions, Remote Weather Information System (RWIS).

PB93216331
Motorist Information Needs and Changeable Sign Messages for Adverse Winter Travel.
Mountain-Plains Consortium.
1992, 109p
MPC-92-11
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Winter driving, Road conditions, Motorist information needs.

PB96109699
Evaluation of the 'Share-the-Road' Campaign.
Michigan State Univ., East Lansing. Coll. of Engineering.
1995, 79p
GLCTTR-71-95/01
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Heavy trucks, Highway safety programs, Snow.

PB98128572
Remote Passive Road Ice Sensor System (RPRISS).
Transportation Research Board, Washington, DC.
1997, 30p
TRB/IDEA/ITS-34
Related Categories/Sub-Categories:
48H (Snow, Ice, & Permafrost)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Road surfaces, Ice, Infrared detection.

PB2012102703
Best Practices for Road Weather Management, Version 2.0.
Mitretek Systems, Inc., Washington, DC.
2003, 131p
FHWA-OP-03-081
Related Categories/Sub-Categories:
43G (Transportation)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Adverse weather, Road weather management, Inclement weather conditions.

PB99165185
Evaluation of Winter Maintenance Material Metering and Placement Equipment.
Maine Dept. of Transportation, Augusta. Transportation Research Div.
1999, 92p
ME-97-7
Related Categories/Sub-Categories:
43G (Transportation)
85D (Transportation Safety)
85H (Road Transportation)
Keywords: Snow removal, Ice removal, Icy road conditions.

PB93126878
Maintenance Management, Traffic Safety, and Snow Removal.
Transportation Research Board, Washington, DC.
1992, 89p
TRB/TRR-1352
ISBN-0-309-05216-5
Related Categories/Sub-Categories:
43G (Transportation)
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Highway maintenance, Construction sites, Traffic controls.

PB91113001
Evaluation Procedures for Deicing Chemicals. Interim Report.
Midwest Research Inst., Kansas City, MO.
1990, 86p
SHRP-W/IR-90-001
Related Categories/Sub-Categories:
43G (Transportation)
48H (Snow, Ice, & Permafrost)
50A (Highway Engineering)
85D (Transportation Safety)
85H (Road Transportation)
99F (Physical & Theoretical Chemistry)
91B (Transportation & Traffic Planning)
Keywords: Deicers, Highway maintenance, Ice removal.

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Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order.

NTIS number	Category	Title
PB2000106088	85	Accident Risks of Car Drivers in Wintertime Traffic.
PB2002105699	94	Arttu Progress Report 1.
PB2002104755	91	Automated Road Closure Gate.
PB2005102819	79	Avalanche Hazard Reduction Using the Dopplemayr 'Avalanche Guard' Cache and Mortar Technology.
PB2006100534	91	Avalanche Hazard Reduction Using Wind Drift Disrupters (Snow Sails) Phase I and Phase II.
PB2012102703	55	Best Practices for Road Weather Management, Version 2.0.
PB2004106283	43	Cable Guardrail (Interim Report).
PB89128284	99	Chemistry of Deicing Roads: Penetrating the Ice.
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