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Highlighted Categories

Civil Engineering (50) and Transportation (85)

This month, we are featuring technical documents recently received and categorized in NTIS Subject Categories 50 - Civil Engineering and 85 - Transportation.

The diversity of the NTIS collection is demonstrated in the *Related Categories* listed for each document. Related categories listed this month include:

- 43 Problem Solving Information for State & Local Governments
- 47 Ocean Sciences & Technology
- 48 Natural Resources & Earth Sciences
- 51 Aeronautics & Aerodynamics
- 57 Medicine & Biology
- 68 Environmental Pollution & Control
- 70 Administration & Management
- 71 Materials Sciences
- 74 Military Sciences
- 88 Library & Information Sciences
- 89 Building Industry Technology
- 91 Urban & Regional Technology & Development
- 92 Behavior & Society
- 96 Business & Economics
- 97 Energy
- 99 Chemistry

The list of new titles in these featured categories begins on the next page.

Director's Message

Welcome to the third edition of the NTIS Technical Reports Newsletter. We are gratified with the response our first two issues generated and thank those of you who have already signed up to continue receiving future editions of the newsletter. If you have not already subscribed you may do so by clicking this link:
ntrnews@ntis.gov.

I am pleased to announce that our new RSS feeds are now available. There is one for each of our 39 major subject areas and includes a list of all new titles added to the collection within the past two weeks.

With this Newsletter, NTIS is building awareness and understanding of the depth and breadth of Federal Government scientific and technical information available.

If you have suggestions for future topics, or questions about the collection, please contact us at ntrnews@ntis.gov.

Ellen Herbst
Director, NTIS

RSS Feeds Now Available in your choice of NTIS Subject Category. For information go to <http://www.ntis.gov/rss/rssntiscategorylist.aspx> and look for the new Category RSS Feeds button.

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U.S. Department of Commerce
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Springfield VA 22161

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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)

Find More on NTIS.GOV

The documents listed here are just some of the newest in the collection. Find information on other new items, legacy documents, as well as ordering and format options in the search area of <http://www.ntis.gov>.

Category 50 Civil Engineering

PB2008111483

I-35W Bridge Collapse and Response,
Minneapolis, Minnesota

Federal Emergency Management Agency
2007, 60 pages

Related Categories/Sub-categories:

43D (Police, Fire, & Emergency Services)

50A (Highway Engineering)

91I (Emergency Services & Planning)

PB2008112683

Fracture Critical Bridge Inspection, In-Depth
Report: Bridge No. 9340 (Squirt Bridge), I-35W
over the Mississippi River at Minneapolis, MN.

Department of Transportation

2006, 50 pages

Related Categories/Sub-categories:

50A (Highway Engineering)

PB2008112710

Fatigue Evaluation and Redundancy Analysis.
Bridge No. 9340 I-35W over Mississippi River.
Draft Report.

Minnesota Department of Transportation

2006, 295 pages

Related Categories/Sub-categories:

43G (Transportation)

50A (Highway Engineering)

91B (Transportation & Traffic Planning)

PB2008112711

Investigative Report to Joint Committee to
Investigate the I-35W Bridge Collapse

Minnesota State Legislature

2008, 126 pages

Related Categories/Sub-categories:

43G (Transportation)

50A (Highway Engineering)

91B (Transportation & Traffic Planning)

PB2008112712

Investigative Report to Joint Committee
to Investigate the I-35W Bridge Collapse.

Appendix: Volume One.

Minnesota State Legislature

2008, 664 pages

Related Categories/Sub-categories:

43G (Transportation)

50A (Highway Engineering)

91B (Transportation & Traffic Planning)

PB2008112713

Investigative Report to Joint Committee
to Investigate the I-35W Bridge Collapse.

Appendix: Volume Two.

Minnesota State Legislature

2008, 488 pages

Related Categories/Sub-categories:

43G (Transportation)

50A (Highway Engineering)

91B (Transportation & Traffic Planning)

PB2008112714

Investigative Report to Joint Committee
to Investigate the I-35W Bridge Collapse.

Appendix: Volume Three.

Minnesota State Legislature

2008, 581 pages

Related Categories/Sub-categories:

43G (Transportation)

50A (Highway Engineering)

91B (Transportation & Traffic Planning)

Major Subject Categories

Category Codes*/Title	New for August Quantity**
41 Manufacturing Technology	32
43 Problem Solving Information for State & Local Governments	236
44 Health Care	743
45 Communication	94
46 Physics	249
47 Ocean Sciences & Technology	149
48 Natural Resources & Earth Sciences	191
49 Electrotechnology	58
50 Civil Engineering	83
51 Aeronautics & Aerodynamics	118
54 Astronomy & Astrophysics	34
55 Atmospheric Sciences	44
57 Medicine & Biology	1,014
62 Computers, Control & Information Theory	131
63 Detection & Countermeasures	58
68 Environmental Pollution & Control	814
70 Administration & Management	270
71 Materials Sciences	56
72 Mathematical Sciences	53
74 Military Sciences	322
75 Missile Technology	4
76 Navigation, Guidance, & Control	13
77 Nuclear Science & Technology	77
79 Ordnance	31
81 Combustion, Engines, & Propellants	76
82 Photography & Recording Devices	9
84 Space Technology	60
85 Transportation	158
88 Library & Information Sciences	45
89 Building Industry Technology	25
90 Government Inventions for Licensing	4
91 Urban & Regional Technology & Development	261
92 Behavior & Society	466

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

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

PB2008112715

Investigative Report to Joint Committee to Investigate the I-35W Bridge Collapse. Appendix: Volume Four. Minnesota State Legislature 2008, 507 pages

Related Categories/Sub-categories:

- 43G (Transportation)
- 50A (Highway Engineering)
- 91B (Transportation & Traffic Planning)

PB2008112716

Investigative Report to Joint Committee to Investigate the I-35W Bridge Collapse. Appendix: Volume Five. Minnesota State Legislature 2008, 630 pages

Related Categories/Sub-categories:

- 43G (Transportation)
- 50A (Highway Engineering)
- 91B (Transportation & Traffic Planning)

PB2008112717

Initial Inspection Report for Fatigue Evaluation Bridge 9340 I-35W over Mississippi River Minnesota Department of Transportation 2003, 198 pages

Related Categories/Sub-categories:

- 43G (Transportation)
- 50A (Highway Engineering)
- 91B (Transportation & Traffic Planning)

PB2008112718

Structure Investigation Information. Mn/DOT Bridge No. 9340 (Squirt Bridge) I-35W over the Mississippi River at Minneapolis, MN. Minnesota Department of Transportation 2006, 50 pages

Related Categories/Sub-categories:

- 43G (Transportation)
- 50B (Civil Engineering)
- 91B (Transportation & Traffic Planning)

PB2008112719

Bridge Inspector's Reference Manual. Revised Manual, December 2006 Department of Transportation 2006, 1,754 pages

FHWA-NHI-03-001-REV

Related Categories/Sub-categories:

- 50B (Civil Engineering)
- 88E (Reference Materials)

PB2008112720

Second Inspection Report for Fatigue Evaluation Bridge 9340 I-35W over Mississippi River Minnesota Department of Transportation 2003, 58 pages

Related Categories/Sub-categories:

- 43G (Transportation)
- 50A (Highway Engineering)
- 91B (Transportation & Traffic Planning)

ADA471760

Highway Bridges: Conditions and the Federal/State Role. Congressional Report. Department of Defense 2007, 19 pages CRS-RL34127

Related Categories/Sub-categories:

- 43G (Transportation)
- 50A (Highway Engineering)
- 91B (Transportation & Traffic Planning)

ADA472384

Military Base Closures: Role and Costs of Environmental Cleanup Department of Defense 2006, 7 pages CRS-RS22065

Related Categories/Sub-categories:

- 50B (Civil Engineering)
- 68G (Environmental Health & Safety)
- 74E (Logistics, Military Facilities, & Supplies)

DE2008920108

Characteristics of Fault Zones in Volcanic Rock Near Yucca Flat, Nevada Test Site, Nevada Department of Energy 2007, 53 pages USGS-OFR-2007-1293

Related Categories/Sub-categories:

- 48F (Geology & Geophysics)
- 50D (Soil & Rock Mechanics)
- 68 (Environmental Pollution & Control)

N20070031763

Vertical Drop Testing and Analysis of the Wasp Helicopter Skid Gear NASA 2007, 35 pages NASA/TM-2007-214901

PB2008100791

Dynamic Impact Load Tests on a Bridge Guardrail System Department of Transportation 2007, 58 pages MPC-07-188

Related Categories/Sub-categories:

- 50A (Highway Engineering)
- 50B (Civil Engineering)

PB2008105075

Probabilistic Analysis of the Frequency of Bridge Collapses Due to Vessel Impact Department of Transportation 2006, 453 pages CTR-0-4650-1

Related Categories/Sub-categories:

- 43G (Transportation)
- 50A (Highway Engineering)
- 85D (Transportation & Safety)
- 85G (Marine & Waterway Transportation)
- 91B (Transportation & Traffic Planning)

PB2008107661

Development of Hurricane Resistant Cable Supported Traffic Signals Department of Transportation 2007, 109 pages

Related Categories/Sub-categories:

- 43G (Transportation)
- 50A (Highway Engineering)
- 85H (Road Transportation)
- 91B (Transportation & Traffic Planning)

PB2008108240

Federal Guidelines for Dam Safety: Earthquake Analysis and Design of Dams Federal Emergency Management Agency 2005, 75 pages

Related Categories/Sub-categories:

- 48F (Geology & Geophysics)
- 50B (Civil Engineering)
- 89D (Structural Analysis)

PB2008109721

Elevated Lead in D.C. Drinking Water: A Study of Potential Causative Events, Final Summary Report

Environmental Protection Agency

2007, 221 pages

EPA/815/R-07/021

Related Categories/Sub-categories:

- 43F (Environment)
- 50B (Civil Engineering)
- 68D (Water Pollution & Control)
- 91A (Environment Management & Planning)

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Category 50 Civil Engineering

ADA473806

Mold Susceptibility of Rapidly Renewable Building Materials Used in Wall Construction

Department of Defense

2007, 81 pages

Related Categories/Sub-categories:

50C (Construction Equipment, Materials, & Supplies)

57K (Microbiology)

57U (Public Health & Industrial Medicine)

89G (Construction Materials, Components, & Equipment)

PB2008111195

Student Research Accomplishments, 2006-2007, Multidisciplinary Center for Earthquake Engineering Research

National Science Foundation

2007, 52 pages

MCEER-07-SP05

Related Categories/Sub-categories:

89D (Structural Analysis)

92D (Education, Law, & Humanities)

PB2008112188

Impact of Airport Pavement Deicing Products on Aircraft and Airfield Infrastructure. A Synthesis of Airport Practice

Department of Transportation

2008, 67 pages

ACRP-SYN-6 and ISBN-978-0-309-09799-4

Related Categories/Sub-categories:

48H (Snow, Ice & Permafrost)

51 (Aeronautics & Aerodynamics)

51C (Aircraft)

85A (Air Transportation)

DE2008927606

Asphalt Roofing Shingles into Energy Project. Report for June 1, 2006 to April 20, 2008.

Department of Energy

2008, 192 pages

Related Categories/Sub-categories:

50C (Construction Equipment, Materials, & Supplies)

68C (Solid Wastes Pollution & Control)

89G (Construction Materials, Components, & Equipment)

97R (Environmental Studies)

Category 85 Transportation

ADA481896

Simulation of Head Impact Leading to Traumatic Brain Injury

Department of Defense

2006, 7 pages

Related Categories/Sub-categories:

57E (Clinical Medicine)

57S (Physiology)

DE2008913591

Battery Choices and Potential Requirements for Plug-In Hybrids

Department of Energy

2007, 28 pages

NREL/PR-540-41328

Related Categories/Sub-categories:

85H (Road Transportation)

970 (Miscellaneous Energy Conversion & Storage)

PB2008101025

Updates to Research on Recommended Minimum Levels for Pavement Marking Retroreflectivity to Meet Driver Night Visibility Needs

Department of Transportation

2007, 50 pages

FHWA-HRT-07-059

Related Categories/Sub-categories:

43G (Transportation)

40A (Highway Engineering)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

PB2008103638

Evaluation of the Role of Driver's Knowledge of Who Has the Right of Way Contributes to Interstate On-Ramp Crashes

Department of Transportation

2007, 62 pages

MBTC-2100

Related Categories/Sub-categories:

43G (Transportation)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

PB2008105182

Parent-Taught Driver Education in Texas: A Comparative Evaluation

Department of Transportation

2007, 216 pages

DOT-HS-810-760

Related Categories/Sub-categories:

43G (Transportation)

85D (Transportation Safety)

PB2008109375

Developing Driving Support Systems to Mitigate Behavioral Risk Patterns Among Teen Drivers

Department of Transportation

2008, 147 pages

CTS-07-05

Related Categories/Sub-categories:

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

PB2008109401

Show Me the Road to Hydrogen. UTC/Transportation Fuel Research and Development

Department of Transportation

2008, 50 pages

Related Categories/Sub-categories:

41K (Engineering Materials)

43E (Energy)

71 (Materials Sciences)

85H (Road Transportation)

97F (Fuel Conversion Processes)

97K (Fuels)

97G (Policies, Regulations & Studies)

PB2008109918

Train-to-Train Impact Test of Crash Energy Management Passenger Rail Equipment

Department of Transportation

2006, 12 pages

Related Categories/Sub-categories:

43G (Transportation)

85C (Metropolitan Rail Transportation)

85D (Transportation Safety)

85I (Railroad Transportation)

PB2008110128

Bus Rapid Transit: A Handbook for Partners

Department of Transportation

2007, 80 pages

MTI-06-02

Related Categories/Sub-categories:

43G (Transportation)

91B (Transportation & Traffic Planning)

PB2008110312

Maritime Administration and the U.S. Marine Transportation System: A Vision for the 21st Century

Department of Transportation

2007, 48 pages

Related Categories/Sub-categories:

47A (Marine Engineering)

85G (Marine & Waterway Transportation)

91B (Transportation & Traffic Planning)

96A (Domestic Commerce, Marketing, & Economics)

PB2008110471

Countermeasures That Work: A Highway Safety Countermeasure Guide for State Highway Safety Offices Third Edition, 2008

Department of Transportation
2008, 268 pages

Related Categories/Sub-categories:

- 43G (Transportation)
- 63 (Detection & Countermeasures)
- 70F (Public Administration & Government)
- 85D (Transportation Safety)
- 85H (Road Transportation)
- 91B (Transportation & Traffic Planning)

PB2008110762

Discovery and Investigation of an Early Nineteenth-Century Wooden Sailing Vessel in 2,000 Feet of Water

Department of Interior
2008, 48 pages

OCS/MMS-2008-018

Related Categories/Sub-categories:

- 47A (Marine Engineering)
- 85G (Marine & Waterway Transportation)

PB2008111181

Safety Evaluation of STOP AHEAD Pavement Markings

Department of Transportation
2008, 54 pages

FHWA-HRT-08-043

Related Categories/Sub-categories:

- 43G (Transportation)
- 50A (Highway Engineering)
- 85D (Transportation Safety)
- 85H (Road Transportation)
- 91B (Transportation & Traffic Planning)

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 one to five, although there are some reports with more.

PB2008111921

Above and Beyond: The Environmental and Social Contributions of America's Highway Programs

Department of Transportation
2008, 100 pages

ISBN-978-1-56051-402-2

Related Categories/Sub-categories:

- 43G (Transportation)
- 91B (Transportation & Traffic Planning)
- 92C (Social Concerns)

PB2008112135

Seat Belt Use in 2007: Race and Ethnicity Results Among Occupants Traveling with Children

Department of Transportation
2008, 4 pages

DOT-HS-810 896

Related Categories/Sub-categories:

- 43G (Transportation)
- 85D (Transportation Safety)
- 85H (Road Transportation)
- 91B (Transportation & Traffic Planning)

PB2008112137

Motorcycle Helmet Use in 2007: Overall Results

Department of Transportation
2007, 5 pages

DOT-HS-810 840

Related Categories/Sub-categories:

- 43G (Transportation)
- 85D (Transportation Safety)
- 85H (Road Transportation)
- 91B (Transportation & Traffic Planning)

PB2008112686

Our Nation's Highways, 2008

Department of Transportation
2008, 48 pages

FHWA-PL-08-021

Related Categories/Sub-categories:

- 43G (Transportation)
- 50A (Highway Engineering)
- 85H (Road Transportation)
- 91B (Transportation & Traffic Planning)

PB2008111670

Synthesis of Transportation Emissions Research: Current Status and Future Directions

Department of Transportation
2008, 112 pages

REPT-473700-00049

Related Categories/Sub-categories:

- 57U (Public Health & Industrial Medicine)
- 68A (Air Pollution & Control)
- 68G (Environmental Health & Safety)
- 81A (Combustion & Ignition)
- 91A (Environmental Management & Planning)
- 97B (Energy Use, Supply, & Demand)

PB2008111443

Speed Enforcement Camera Systems Operational Guidelines

Department of Transportation
2008, 92 pages

DOT-HS-810-916

Related Categories/Sub-categories:

- 43G (Transportation)
- 85D (Transportation Safety)
- 85H (Road Transportation)
- 91B (Transportation & Traffic Planning)

PB2008110779

Maritime Security: National Strategy and Supporting Plans Were Generally Well-Developed and Are Being Implemented

General Accounting Office
2008, 36 pages

GAO-08-672

Related Categories/Sub-categories:

- 70F (Public Administration & Government)
- 74 (Military Sciences)
- 74G (Military Operations, Strategy, & Tactics)
- 85G (Marine & Waterway Transportation)

PB2008110489

United We Ride (UWR)/Mobility Services for All Americans (MSAA). Enhanced Human Service Transportation Models Joint Demonstration.

Phase I – System Planning and Design. Process Evaluation: Baseline Analysis

Department of Transportation
2007, 55 pages

Related Categories/Sub-categories:

- 43G (Transportation)
- 91B (Transportation & Traffic Planning)

DE2008922942

21st Century Locomotive Technology: Quarterly Technical Status Report 20 DOE/AL68284-TSR20 (October 2007-December 2007)

Department of Energy
2007, 14 pages

Related Categories/Sub-categories:

- 85I (Railroad Transportation)
- 85J (Reciprocation & Rotating Combustion Engines)

ADA481471

Vehicle Fingerprinting Using Drive-By Sounds

Department of Defense
2006, 9 pages

Related Categories/Sub-categories:

- 43D (Police, Fire, & Emergency Services)
- 63A (Acoustic Detection)
- 85H (Road Transportation)
- 91C (Fire Services, Law Enforcement, & Criminal Justice)

