



NTIS Technical Reports Newsletter

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.

Director: Bruce Borzino
Associate Director for Product Management & Acquisition: Don Hagen
Manager, Cataloging/Indexing Division: Sue Feindt
Manager, Product & Program Management: Wayne Strickland
Contributing Program Manager: Christie Langone
Technical Information Specialist: Anne Harrison
Editor and Design Direction: Linda Davis

This Newsletter is published twelve times a year, and delivered via e-mail on or about the 15th of each month. You may subscribe or unsubscribe by writing to ntrnews@ntis.gov. We can only unsubscribe you if you receive your copy from ntrnews@ntis.gov. Copies are also redistributed through listservs and by other subscribers.

The ntrnews subscribers list is not shared with any other entities for any purpose.

Your comments are always welcome. Write us at ntrnews@ntis.gov.

Permission to redistribute this newsletter is granted.

National Technical Information Service
U.S. Department of Commerce
5301 Shawnee Road
Alexandria, VA 22312

VOLUME 3
NUMBER 3
SEPTEMBER 15, 2010

Bridge Structural Analysis

PB2010109412
Mitigation Strategies for Early-Age Shrinkage Cracking in Bridge Decks.

Washington State Transportation Center,
Pullman.
2010, 91p
WA-RD-747.1

Related Categories/Sub-categories:

50A (Highway Engineering)
50C (Construction Equipment, Materials, & Supplies)

Keywords: Cracking (Fracturing), Shrinkage, Bridge decks, Concrete durability, Admixtures, Performance evaluation, Cements, Concrete mixes.

PB2010110769

LRFD Design and Construction of Shallow Foundations for Highway Bridge Structures, National Cooperative Highway Research Program (NCHRP) Report 651.

Transportation Research Board, Washington, DC.

2010, 149p
NCHRP-651
ISBN-978-0-309-15467-3
LCCN 2010927174

Related Categories/Sub-categories:

50A (Highway Engineering)
50B (Civil Engineering)
50C (Construction Equipment, Materials, & Supplies)

Keywords: Bridge foundations, Settlement (Structural), Loads (Forces), Highway bridges, Displacement, Design specifications, Tested foundations, Failure, Stresses, Load and Resistance Factor Design (LRFD).

PB2010112006

Transfer and Development Length of Prestressing Tendons in Full-Scale AASHTO Prestressed Concrete Girders Using Self-Consolidating Concrete.

Illinois State Dept. of Transportation,
Springfield. Bureau of Materials and Physical Research. Federal Highway Administration,
Springfield, IL. Illinois Div.
2009, 68p

FHWA-ICT-09-038
UILU-ENG-2009-2009
ICT-09-038

Related Categories/Sub-categories:

50A (Highway Engineering)
50C (Construction Equipment, Materials, & Supplies)

89D (Structural Analyses)
89G (Construction Materials, Components, & Equipment)

Keywords: Bridges (Structures), Prestressed concrete, Reinforced plastics, Fiber laminates, Corrosion prevention, Tensile strength, Flexural strength, Structural design, Prestressing tendons, Constructability, Flawless finish.

PB2010110331

Simultaneous Structural and Environmental Loading of an Ultra-High Performance Concrete Component.

Federal Highway Administration, McLean, VA. Office of Infrastructure Research and Development.

2010, 50p
FHWA-HRT-10-054

See also PB2007-101935, PB2007-104386, PB2009-115495, and PB2009-115496.

Related Categories/Sub-categories:

43G (Transportation)
50A (Highway Engineering)
50C (Construction Equipment, Materials, & Supplies)
89G (Construction Materials, Components, & Equipment)

Keywords: Highway bridges, Material tests, Fiber reinforced concrete, Environmental loading, Accelerated construction, Concrete components, Durable infrastructure systems, Crack section permeability, Durability, Material characterization, Tensile behavior, Compressive behavior, Uniaxial tensile testing, Prismatic sections, Long-term stability, Flexural strength, Ultra-high performance concrete (UHPC), NaCl solution, Federal Highway Administration (FHWA).

PB2008916203

National Transportation Safety Board Highway Accident Report: Collapse of I-35W Highway Bridge, Minneapolis, Minnesota, on August 1, 2007.

National Transportation Safety Board,
Washington, DC.

2008, 178p
NTSB/HAR-08/03

Related Categories/Sub-categories:

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

Keywords: Highway bridges, Collapses, Accident investigations, Minnesota, Emergency response, Mississippi River, Deck trusses, Fatalities, Gusset plates, I-35 Highway bridge, Minneapolis (Minnesota).

Category 50 Civil Engineering

PB2010106177

Improving Transportation Construction Project Performance: Development of a Model to Support the Decision-Making Process for Incentive/Disincentive Construction Projects.

Mineta Transportation Inst., San Jose, CA. Coll. of Business.

2010, 96p

MTI-09-07

CA-MTI-10-2801

Related Categories/Sub-categories:

50A (Highway Engineering)

43G (Transportation),

91B (Transportation & Traffic Planning)

Keywords: Highway construction, Transportation planning, Project planning.

PB2010106198

Recommended Design Specifications for Live Load Distribution to Buried Structures, National Cooperative Highway Research Program, (NCHRP Report 647).

2010, 85p

NCHRP-647

ISBN 978-0-309-11822-4

LCCCN 2010922165

Related Categories/Sub-categories:

50A (Highway Engineering)

50B (Civil Engineering)

50D (Soil & Rock Mechanics)

Keywords: Settlement (Structural), Culverts, Live loads.

PB2010108324

Guidelines for the Use of Pavement Marking Symbols at Freeway Interchanges: Final Report.

Texas Dept. of Transportation, Austin. Federal Highway Administration, Austin, TX. Texas Div. 2010, 116p

REPT-0-5890-1

FHWA/TX-10/0-5890-1

Related Categories/Sub-categories:

43G (Transportation)

50A (Highway Engineering)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Freeway interchanges, Pavement markings, Lane guidance.

PB2010108361

Evaluation of Hot Mix Asphalt Moisture Sensitivity Using the Nottingham Asphalt Test Equipment.

Iowa Dept. of Transportation, Ames. Iowa Highway Research Board.

2010, 134p

IHRB-TR-555

Related Categories/Sub-categories:

50A (Highway Engineering)

50C (Construction Equipment, Materials, & Supplies)

Keywords: Asphalt pavements, Hot mix paving mixtures, Pavement condition.

PB2010109382

Current Practices in Pavement Performance Modeling.

Pennsylvania Dept. of Transportation, Harrisburg. Bureau of Planning and Research.

2010, 100p

FHWA-PA-2010-007-080307

Related Categories/Sub-categories:

43G (Transportation)

50A (Highway Engineering)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Pavement performance, Model assessments.

ADA522475

Knowledge Transformation in the United States Air Force Civil Engineer Career Field: A System Dynamics Approach.

Air Force Inst. of Tech., Wright-Patterson AFB, OH. Graduate School of Engineering and Management.

2010, 126p

AFIT/GEM/ENV/10-M13

Related Categories/Sub-categories:

50B (Civil Engineering)

70D (Personnel Management, Labor Relations & Manpower Studies)

92A (Job Training & Career Development)

Keywords: Military engineers, Knowledge transformation, Civil engineer.

Major Subject Categories

Category Codes*/Title	New for August Quantity**
41 Manufacturing Technology	56
43 Problem Solving Information for State & Local Governments	226
44 Health Care	126
45 Communication	88
46 Physics.....	230
47 Ocean Sciences & Technology	181
48 Natural Resources & Earth Sciences.....	486
49 Electrotechnology	76
50 Civil Engineering	285
51 Aeronautics & Aerodynamics	98
54 Astronomy & Astrophysics	39
55 Atmospheric Sciences	105
57 Medicine & Biology	518
62 Computers, Control & Information Theory	186
63 Detection & Countermeasures.....	83
68 Environmental Pollution & Control	444
70 Administration & Management.....	297
71 Materials Sciences.....	139
72 Mathematical Sciences.....	82
74 Military Sciences	557
75 Missile Technology.....	9
76 Navigation, Guidance, & Control.....	17
77 Nuclear Science & Technology	68
79 Ordnance	49
81 Combustion, Engines, & Propellants	24
82 Photography & Recording Devices.....	7
84 Space Technology.....	58
85 Transportation	175
88 Library & Information Sciences.....	303
89 Building Industry Technology	74
90 Government Inventions for Licensing	4
91 Urban & Regional Technology & Development.....	234
92 Behavior & Society.....	473
94 Industrial & Mechanical Engineering	128
95 Biomedical Technology & Human Factors	45
96 Business & Economics	443
97 Energy.....	134
98 Agriculture & Food	175
99 Chemistry.....	176

* 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.

Category 50 Civil Engineering

PB2010109375

[Airborne Evaluation of Retro-Reflective Beads.](#)
Federal Aviation Administration, Washington, DC. Office of Airport Safety and Standards. 2010, 56p
DOT/FAA/AR-TN10/8
Related Categories/Sub-categories:
50B (Civil Engineering)
85A (Air Transportation)
Keywords: Surface markings, Refraction, Runway incursions.

PB2010110576

[Comprehensive Risk Analysis for Structure Type Selection.](#)
Colorado Dept. of Transportation, Denver. and Federal Highway Administration, Denver, CO. Colorado Div. 2010, 64p
CDOT-2010-2
Related Categories/Sub-categories:
43G (Transportation)
50A (Highway Engineering)
50B (Civil Engineering)
85H (Road Transportation)
Keywords: Bridge structures, Bridge selection, Bridge design.

PB2010110618

[Defense Infrastructure: Army Needs to Improve Its Facility Planning Systems to Better Support Installations Experiencing Significant Growth.](#)
Government Accountability Office. 2010, 46p
GAO-10-602
Related Categories/Sub-categories:
44G (Environmental & Occupational Factors)
50B (Civil Engineering)
74E (Logistics, Military Facilities, & Supplies),
88D (Personnel)
89D (Structural Analyses)
Keywords: Army facilities, Housing (Dwellings), Facility construction.

ADA518899

[Membrane and Flashing Condition Indexes for Modified Bitumen Roofs: Inspection and Distress Manual.](#)
Construction Engineering Research Lab. (Army), Champaign, IL. Engineer Research and Development Center. 2010, 91p
ERDC/CERL-TR-010-5
Related Categories/Sub-categories:
50C (Construction Equipment, Materials, & Supplies)
74E (Logistics, Military Facilities, & Supplies)
89D (Structural Analyses)
Keywords: Roofs, Bitumen, Modified bitumen roofs.

PB2010110547

[Evaluation of a Hot Mix Asphalt Perpetual Pavement.](#)
Federal Highway Administration, Madison, WI. Wisconsin Div. 2010, 83p
FEP-01-10
Related Categories/Sub-categories:
50A (Highway Engineering)
50C (Construction Equipment, Materials, & Supplies)
85H (Road Transportation)
91B (Transportation & Traffic Planning)
Keywords: Perpetual pavement, Hot mix asphalt, Premature cracking.

PB2010110549

[Bridge Deck Cracking and Composite Action Analyses.](#)
New Jersey Dept. of Transportation, Trenton. Bureau of Research. Federal Highway Administration, Trenton, NJ. New Jersey Div. 2010, 54p
FHWA-NJ-2008-010
Related Categories/Sub-categories:
43G (Transportation)
50A (Highway Engineering)
50C (Construction Equipment, Materials, & Supplies)
Keywords: Bridge decks, Cracking (Fracturing), Fatigue (Materials).

PB2010110778

[Evaluation and Repair Procedures for Precast/Prestressed Concrete Girders with Longitudinal Cracking in the Web, National Cooperative Highway Research Program \(NCHRP\) Report 654.](#)
Transportation Research Board, Washington, DC. National Cooperative Highway Research Program. Nebraska Univ., Lincoln. George Washington Univ., Washington, DC. 2010, 76p
NCHRP-654
Related Categories/Sub-categories:
50A (Highway Engineering)
50C (Construction Equipment, Materials, & Supplies)
Keywords: Concrete girders, Longitudinal web cracking, Repair procedures.

PB2010112844

[Report on the Diagnosis, Prognosis, and Mitigation of Alkali-Silica Reaction \(ASR\) in Transportation Structures.](#)
Federal Highway Administration, Washington, DC. Office of Pavement Technology. 2010, 154p
Related Categories/Sub-categories:
50A (Highway Engineering)
50C (Construction Equipment, Materials, & Supplies)
Keywords: Alkali aggregate reactions, Concrete structures, Alkali silica reaction (ASR).

ADA521275

[Tactical Wheeled Vehicle Survivability: Results of Experiments to Quantify Aboveground Impulse.](#)
Engineer Research and Development Center, Vicksburg, MS. Geotechnical and Structures Lab. 2010, 176p
ERDC/GSL-TR-10-7
Related Categories/Sub-categories:
48E (Soil Sciences)
50D (Soil & Rock Mechanics)
79A (Ammunition, Explosives, & Pyrotechnics)
79D (Combat Vehicles)
Keywords: Combat vehicles, Survivability, Explosives.

DE2010973406

[Technical Basis for Evaluating Surface Barriers to Protect Groundwater from Deep Vadose Zone Contamination.](#)
Pacific Northwest National Lab., Richland, WA. Sponsoring Organization: Department of Energy, Washington, DC. 2010, 57p
PNNL-18661
PNNL-18498-REV2
Related Categories/Sub-categories:
50D (Soil & Rock Mechanics)
68D (Water Pollution & Control)
68F (Radiation Pollution & Control)
77G (Radioactive Wastes & Radioactivity)
Keywords: Groundwater protection, Contamination, Geologic structures.

PB2010108362

[Biofuel Co-Product Uses for Pavement Geo-Materials Stabilization.](#)
Iowa Dept. of Transportation, Ames. Iowa Highway Research Board. 2010, 50p
IHRB-TR-582
Related Categories/Sub-categories:
50A (Highway Engineering)
50D (Soil & Rock Mechanics)
97G (Policies, Regulations & Studies)
85H (Road Transportation)
97K (Fuels)
Keywords: Biofuels, Pavements, Soil stabilization.

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

Category 85 Transportation

ADA519867

Threats to Aircraft Structural Safety Including a Compendium of Selected Structural Accidents/Incidents.

Aeronautical Systems Center, Wright-Patterson AFB, OH. Aerospace Engineering Dir.

2010, 168p

ASC-TR-2010-5002

Related Categories/Sub-categories:

51C (Aircraft)

74 (Military Sciences)

85A (Air Transportation)

Keywords: Failure (Mechanics), Aviation safety, Structural integrity.

PB2010109388

National Airspace System: Setting On-Time Performance Targets at Congested Airports Could Help Focus FAA's Actions.

Government Accountability Office.

2010, 69p

GAO-10-542

Related Categories/Sub-categories:

51E (Avionics)

85A (Air Transportation)

Keywords: Metropolitan regions, Airport planning, Transportation planning.

PB2010109420

Development of an Improved Fire Test Method and Criteria for Aircraft Electrical Wiring.

Federal Aviation Administration.

2010, 95p

DOT/FAA/AR-10/2

Related Categories/Sub-categories:

51C (Aircraft)

51E (Avionics)

81A (Combustion & Ignition)

85A (Air Transportation)

Keywords: Flammability, Radiant heat panel tests, Fire tests.

PB2010109813

Enhancing Airport Land Use Compatibility.

Volume 1: Land Use Fundamentals and Implementation Resources. ACRP Report 27.

Transportation Research Board, Washington, DC.

Airport Cooperative Research Program.

2010, 311p

ACRP-527

Related Categories/Sub-categories:

43G (Transportation)

85A (Air Transportation)

Keywords: Land use, Airports, Airport facilities.

PB2010110619

High Speed Rail: Learning From Service Start-Ups, Prospects for Increased Industry Investment, and Federal Oversight Plans.

Government Accountability Office.

2010, 40p

GAO-10-625

Related Categories/Sub-categories:

43G (Transportation)

85C (Metropolitan Rail Transportation)

85I (Railroad Transportation)

91B (Transportation & Traffic Planning)

Keywords: Passenger rail services, Rail industry, Federal oversight plans.

PB2010112707

Measuring the Benefits of Intercity Passenger Rail: A Study of the Heartland Flyer Corridor.

Southwest Region Univ. Transportation Center, College Station, TX.

2010, 180p

SWUTC/10/169116-1

Related Categories/Sub-categories:

43G (Transportation)

85C (Metropolitan Rail Transportation)

85I (Railroad Transportation)

91B (Transportation & Traffic Planning)

Keywords: Intercity mobility, Intercity passenger rail service, High-speed passenger rail.

PB2010106139

Handbook of Emergency Management for State-Level Transportation Agencies.

Department of Transportation, Washington, DC.

Office of Research and Special Programs.

2010, 124p

CA-MTI-10-2850

MTI-09-10

Related Categories/Sub-categories:

43G (Transportation)

85D (Transportation Safety)

91B (Transportation & Traffic Planning)

91I (Emergency Services & Planning)

Keywords: Emergency management, Disaster preparedness, Emergency training.

PB2010106156

Aviation Workforce Development Practices, Airport Cooperative Research Program (ACRP) Synthesis 18.

Transportation Research Board, Washington, DC.

Airport Cooperative Research Program.

2010, 45p

TRB-ACRP-18

ISBN 978-0-309-14306-6

LCCN 2010923251

Related Categories/Sub-categories:

51B (Aeronautics)

51C (Aircraft)

70D (Personnel Management, Labor Relations & Manpower Studies)

85A (Air Transportation)

85D (Transportation Safety)

Keywords: Aviation industry, Workforce, Development practices.

PB2010106193

Improvement of Supervisory Control Intelligent Adaptive Module (SCIAM) for Intersection Safety and Efficiency.

Virginia Tech Transportation Inst., Blacksburg, VA.

2010, 51p

VT-2008-05

Related Categories/Sub-categories:

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Signalized intersections, Traffic safety, Traffic intersections.

PB2010108111

Annual Review of Aircraft Accident Data: U.S. Air Carrier Operations, Calendar Year 2006.

National Transportation Safety Board, Washington, DC.

2010, 64p

NTSB/ARC-10/01

See also PB2009-106372, Calendar Year 2005.

Related Categories/Sub-categories:

51B (Aeronautics)

85A (Air Transportation)

85D (Transportation Safety)

Keywords: Aircraft accidents, Accident statistics, Commercial aviation.

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.

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.

Category 85 Transportation

PB2010109369

Aviation Security: Efforts to Validate TSA's Passenger Screening Behavior Detection Program Underway, but Opportunities Exist to Strengthen Validation and Address Operational Challenges.

Government Accountability Office.

2010, 89p

GAO-10-763

Related Categories/Sub-categories:

63 (Detection & Countermeasures)

85A (Air Transportation)

85D (Transportation Safety)

92 (Behavior & Society)

Keywords: Aviation security, Passenger screening, Observation Techniques,

Transportation Security Administration (TSA).

PB2010109389

Teen Driver Safety: Additional Research Could Help States Strengthen Graduated Driver Licensing Systems.

Government Accountability Office.

2010, 56p

GAO-10-544

Related Categories/Sub-categories:

43G (Transportation)

85D (Transportation Safety)

91B (Transportation & Traffic Planning)

Keywords: Drivers licenses, Teenage driving, Graduated drivers licenses (GDL).

PB2010110568

Evaluation of Lane Change Collision Avoidance Systems Using the National Advanced Driving Simulator.

National Highway Traffic Safety Administration, Washington, DC.

2010, 74p

DOT-HS-811-332

Related Categories/Sub-categories:

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

95D (Human Factors Engineering)

Keywords: Lane changing, Collision avoidance, Accident analysis.

PB2010100289

Emergency Response Via Inland Waterways.

Department of Transportation, Washington, DC. Research and Special Programs Administration.

2010, 74p

MBTC DOT 3008

MBTC DHS 1106

Related Categories/Sub-categories:

85G (Marine & Waterway Transportation)

Keywords: Emergency response, Inland waterways, Waterway Emergency Medical Service (WEMS).

PB2010108351

National Marine Debris Monitoring Program, Lessons Learned.

Environmental Protection Agency, Washington, DC. Oceans and Coastal Protection Div.

2010, 28p

EPA/842/R-10/001

Related Categories/Sub-categories:

68C (Solid Wastes Pollution & Control)

68D (Water Pollution & Control)

76 (Navigation, Guidance, & Control)

85G (Marine & Waterway Transportation)

68C (Solid Wastes Pollution & Control)

68D (Water Pollution & Control)

Keywords: Marine debris, Water pollution, Debris monitoring program.

PB2010109344

Maritime Security: Varied Actions Taken to Enhance Cruise Ship Security, but Some Concerns Remain.

Government Accountability Office.

2010, 52p

GAO-10-400

Related Categories/Sub-categories:

47A (Marine Engineering)

91L (Recreation)

85G (Marine & Waterway Transportation)

Keywords: Cruise ship security, Terrorist targets, Maritime security.

PB2010110300

Oil Spills in U.S. Coastal Waters: Background, Governance, and Issues for Congress, April 30, 2010.

Congressional Research Service.

See also report dated 5 Feb 08, PB2008-110245.

2010, 38p

Related Categories/Sub-categories:

43F (Environment)

68D (Water Pollution & Control)

85G (Marine & Waterway Transportation)

91A (Environmental Management & Planning)

Keywords: Oil spills, Coastal areas, Water pollution effects.

DE2010972306

Plug-In Hybrid Electric Vehicle Market Introduction Study: Final Report.

Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy.

2010, 113p

ORNL/TM-2009/019

Related Categories/Sub-categories:

81B (Electric & Ion Propulsion)

85H (Road Transportation)

96A (Domestic Commerce, Marketing, & Economics)

Keywords: Advanced propulsion systems, Electric vehicles, Plug-in hybrid vehicles.



The National Technical Reports Library (NTRL) enhances accessibility to the NTIS technical reports collection. It provides access to:

- Bibliographic records of more than 2,000,000 technical reports
- Downloadable full text of 600,000 of these reports in PDF format

Subscription rates are based on institutional FTE levels.

The NTRL operates on a system interface that allows users to do queries on the large NTIS bibliographic database. The intent is to broadly expand and improve access to over 2.5 million bibliographic records (pre-1960 to present) and 500k full-text documents in PDF Format that are directly linked to that bibliographic database.

For more information, go to <http://www.ntis.gov/products/ntrl/>

PB2010109415

Human Performance Evaluation of Light Vehicle Brake Assist Systems: Final Report.

National Highway Traffic Safety Administration. 2010, 279p

DOT-HS-811-251

Related Categories/Sub-categories:

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Vehicle performance, Brake tests, Vehicle stability.

Category 85 Transportation

PB2010109416

NHTSA Tire Aging Test: Development Project - Tire Innerliner Analysis.

National Highway Traffic Safety Administration. 2010, 104p

DOT-HS-811-296

Related Categories/Sub-categories:

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Tires, Tire safety, Tire aging.

PB2010109418

Fuel Economy Driver Interfaces: Develop Interface Recommendations. Report on Task 3.

National Highway Traffic Safety Administration. 2010, 188p

Related Categories/Sub-categories:

97B (Energy Use, Supply, & Demand)

85H (Road Transportation)

Keywords: Fuel consumption, Driver simulation, Fuel Economy Driver Interface Concept (FEDIC).

PB2010110544

Biodiesel Fuel Feasibility Study.

Pennsylvania Dept. of Transportation, Harrisburg. Bureau of Planning and Research. 2010, 247p

FHWA-PA-2010-008-PIT017

Related Categories/Sub-categories:

97K (Fuels)

68A (Air Pollution & Control)

85H (Road Transportation)

97K (Fuels)

Keywords: Diesel fuels, Fleet performance analysis, Biofuels.

PB2010112381

Guidebook for Implementing Passenger Rail Service on Shared Passenger and Freight Corridors.

Transportation Research Board, Washington, DC. National Cooperative Highway Research Program. Federal Highway Administration, Washington, DC.

2010, 181p

NCHRP-657

ISBN-0-309-15470-3

Related Categories/Sub-categories:

43G (Transportation)

85C (Metropolitan Rail Transportation)

85I (Railroad Transportation),

91B (Transportation & Traffic Planning)

Keywords: Rail transportation, Passenger transportation, Rail sharing, Passenger rail service.

Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on NTIS.GOV.

If your organization is a subscriber to the National Technical Reports Library, most of the reports listed can be downloaded free there. For information on how to subscribe to NTRL, go to <http://www.ntis.gov/products/ntrl/>.

Title Index – For NTRL Users

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

The list is in alphabetical order by title.

<i>NTIS number</i>	<i>Category</i>	<i>Title</i>
PB2010109375	50	Airborne Evaluation of Retro-Reflective Beads.
PB2010108111	85	Annual Review of Aircraft Accident Data: U.S. Air Carrier Operations, Calendar Year 2006.
PB2010109369	85	Aviation Security: Efforts to Validate TSA's Passenger Screening Behavior Detection Program Underway, but Opportunities Exist to Strengthen Validation and Address Operational Challenges.
PB2010106156	85	Aviation Workforce Development Practices, Airport Cooperative Research Program (ACRP) Synthesis 18.
PB2010110544	85	Biodiesel Fuel Feasibility Study.
PB2010108362	50	Biofuel Co-Product Uses for Pavement Geo-Materials Stabilization.
PB2010110549	50	Bridge Deck Cracking and Composite Action Analyses.
PB2010110576	50	Comprehensive Risk Analysis for Structure Type Selection.
PB2010109382	50	Current Practices in Pavement Performance Modeling.
PB2010110618	50	Defense Infrastructure: Army Needs to Improve Its Facility Planning Systems to Better Support Installations Experiencing Significant Growth.
PB2010109420	85	Development of an Improved Fire Test Method and Criteria for Aircraft Electrical Wiring.
PB2010100289	85	Emergency Response Via Inland Waterways.
PB2010109813	85	Enhancing Airport Land Use Compatibility. Volume 1: Land Use Fundamentals and Implementation Resources. ACRP Report 27.
PB2010110778	50	Evaluation and Repair Procedures for Precast/Prestressed Concrete Girders with Longitudinal Cracking in the Web, National Cooperative Highway Research Program (NCHRP) Report 654.
PB2010110547	50	Evaluation of a Hot Mix Asphalt Perpetual Pavement.
PB2010108361	50	Evaluation of Hot Mix Asphalt Moisture Sensitivity Using the Nottingham Asphalt Test Equipment.
PB2010110568	85	Evaluation of Lane Change Collision Avoidance Systems Using the National Advanced Driving Simulator.
PB2010109418	85	Fuel Economy Driver Interfaces: Develop Interface Recommendations. Report on Task 3.
PB2010112381	85	Guidebook for Implementing Passenger Rail Service on Shared Passenger and Freight Corridors.

Title Index – For NTRL Users

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

The list is in alphabetical order by title.

<i>NTIS number</i>	<i>Category</i>	<i>Title</i>
PB2010108324	50	Guidelines for the Use of Pavement Marking Symbols at Freeway Interchanges: Final Report.
PB2010106139	85	Handbook of Emergency Management for State-Level Transportation Agencies.
PB2010110619	85	High Speed Rail: Learning From Service Start-Ups, Prospects for Increased Industry Investment, and Federal Oversight Plans.
PB2010109415	85	Human Performance Evaluation of Light Vehicle Brake Assist Systems: Final Report.
PB2010106193	85	Improvement of Supervisory Control Intelligent Adaptive Module (SCIAM) for Intersection Safety and Efficiency.
PB2010106177	50	Improving Transportation Construction Project Performance: Development of a Model to Support the Decision-Making Process for Incentive/Disincentive Construction Projects.
ADA522475	50	Knowledge Transformation in the United States Air Force Civil Engineer Career Field: A System Dynamics Approach.
PB2010110769	Bridge	LRFD Design and Construction of Shallow Foundations for Highway Bridge Structures, National Cooperative Highway Research Program (NCHRP) Report 651.
PB2010109344	85	Maritime Security: Varied Actions Taken to Enhance Cruise Ship Security, but Some Concerns Remain.
PB2010112707	85	Measuring the Benefits of Intercity Passenger Rail: A Study of the Heartland Flyer Corridor.
ADA518899	50	Membrane and Flashing Condition Indexes for Modified Bitumen Roofs: Inspection and Distress Manual.
PB2010109412	Bridge	Mitigation Strategies for Early-Age Shrinkage Cracking in Bridge Decks.
PB2010109388	85	National Airspace System: Setting On-Time Performance Targets at Congested Airports Could Help Focus FAA's Actions.
PB2010108351	85	National Marine Debris Monitoring Program, Lessons Learned.
PB2008916203	Bridge	National Transportation Safety Board Highway Accident Report: Collapse of I-35W Highway Bridge, Minneapolis, Minnesota, on August 1, 2007.
PB2010109416	85	NHTSA Tire Aging Test: Development Project - Tire Innerliner Analysis.
PB2010110300	85	Oil Spills in U.S. Coastal Waters: Background, Governance, and Issues for Congress, April 30, 2010.
DE2010972306	85	Plug-In Hybrid Electric Vehicle Market Introduction Study: Final Report.
PB2010106198	50	Recommended Design Specifications for Live Load Distribution to Buried Structures, National Cooperative Highway Research Program, (NCHRP Report 647).
PB2010112844	50	Report on the Diagnosis, Prognosis, and Mitigation of Alkali-Silica Reaction (ASR) in Transportation Structures.
PB2010110331	Bridge	Simultaneous Structural and Environmental Loading of an Ultra-High Performance Concrete Component.
ADA521275	50	Tactical Wheeled Vehicle Survivability: Results of Experiments to Quantify Aboveground Impulse.
DE2010973406	50	Technical Basis for Evaluating Surface Barriers to Protect Groundwater from Deep Vadose Zone Contamination.
PB2010109389	85	Teen Driver Safety: Additional Research Could Help States Strengthen Graduated Driver Licensing Systems.
ADA519867	85	Threats to Aircraft Structural Safety Including a Compendium of Selected Structural Accidents/Incidents.
PB2010112006	Bridge	Transfer and Development Length of Prestressing Tendons in Full-Scale AASHTO Prestressed Concrete Girders Using Self-Consolidating Concrete.

The Nation's Source for Scientific Information

The National Technical Information Service (NTIS), is the nation's largest and most comprehensive source of government-funded scientific, technical, engineering and business-related information.

For more than 60 years, we have served as an innovative resource to Federal agencies, businesses and universities looking for high-caliber information. Our mission is straightforward: to support the nation's economic growth by providing access to information that stimulates innovation and discovery.

While you can find information on virtually any subject on the web, there's no guarantee that the information is accurate — or that it has been published by a legitimate source. NTIS undergoes a rigorous process to ensure that all the information we offer is authentic and credible. This integrity, along with the breadth and depth of our collection, is why NTIS is regarded as the nation's preeminent source of government information.