



## Category 50: Civil Engineering

**PB2009105158**  
Selection and Application of Warning Lights on Roadway Operations Equipment.  
National Institute of Standards and Technology.  
2008, 320p  
TRB/NCHRP/REP-624  
Related Categories/Sub-categories:  
43G (Transportation)  
85H (Road Transportation)  
91B (Transportation & Traffic Planning)

**PB2009104942**  
Rakennukseen Siirtyvaen Liikennetaerinae Arviointi (Assessment of Traffic-Induced Vibrations in Buildings).  
National Institute of Standards and Technology  
2008, 176p  
VTT-TIED-2425, ISBN-978-951-38-7197-0  
Related Categories/Sub-categories:  
43G (Transportation)  
85H (Road Transportation)  
91B (Transportation & Traffic Planning)

**PB2009104869**  
Benefits of Using Intelligent Transportation Systems in Work Zones - A Summary Report.  
Federal Highway Administration.  
2008, 36p  
Related Categories/Sub-categories:  
43G (Transportation)  
85D (Transportation Safety)  
85H (Road Transportation)  
91B (Transportation & Traffic Planning)

**PB2009104634**  
Comprehensive Report on the Long-Term Behavior of High Performance Concrete Bridges in Texas.  
Federal Highway Administration  
2008, 323p  
REPT-7-2941-5  
Related Categories/Sub-categories:  
89G (Construction materials, components, and equipment)

**PB2009104623**  
Development of Improved Bridge Design Provisions for Barge Impact Loading.  
Department of Transportation.  
2008, 256p  
RPT-2008/51117  
Related Categories/Sub-categories:  
46E (Structural Mechanics)  
85D (Transportation Safety)  
85G (Marine & Waterway Transportation)

### 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)**

**PB2009104593**  
Environmental Impact and Benefits Assessment for Proposed Effluent Guidelines and Standards for the Construction and Development Category.  
Environmental Protection Agency  
2008, 253p  
EPA/821/R-08/009  
Related Categories/Sub-categories:  
68C (Solid Wastes Pollution & Control)  
68D (Water Pollution & Control)

**PB2009104576**  
Characterization of Self-Consolidating Concrete for Design of Precast, Prestressed Bridge Girders.  
Federal Highway Administration.  
2008, 384p  
REPT-0-5134-2  
Related Categories/Sub-categories:  
89G ( Construction materials, components and equipment)

**PB2009103593**  
Assessment of the Bureau of Reclamation's Security Program.  
National Research Council  
2008, 146p  
Related Categories/Sub-categories:  
48G (Hydrology & Limnology)  
50B (Civil Engineering)

**PB2009103283**  
Integrated Work Zone Safety Management System and Analysis Tools.  
Florida State Dept. of Transportation.  
2008, 193p  
Related Categories/Sub-categories:  
43G (Transportation)  
85D (Transportation Safety)  
85H (Road Transportation)  
91B (Transportation & Traffic Planning)



## 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.

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National Technical Information Service  
U.S. Department of Commerce  
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VOLUME 1  
NUMBER 9  
MARCH 16, 2009

## Category 50: Civil Engineering

PB2009103257

Monitoring of Bridge Stability Due to Scour Using Remote and Low-Cost Optical Sensors.

Alabama Deptment of Transportation  
2008, 51p

AAMU-RP-930-610

Related Categories/Sub-categories:

- 63 (Detection and Countermeasures)
- 71L (Materials Degradation and Fouling)

DE2008-926221

High-Strength / High Alkaline Resistant Fe-Phosphate Glass Fibers as Concrete Reinforcement, Final Report.

Department of Energy.  
2008, 36p

Related Categories/Sub-categories:

- 71 (Materials Sciences)
- 89G (Construction Materials, Components, & Equipment)

DE2008-927606

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

Department of Energy.  
2008, 192p

Related Categories/Sub-categories:

- 68C (Solid Wastes Pollution & Control)
- 89G (Construction Materials, Components, & Equipment)
- 97R (Environmental Studies)

DE2008-928278

Experimental and Numerical Investigations of Soil Desiccation for Vadose Zone Remediation: Report for Fiscal Year 2007.

Department of Energy.  
2008, 112p

PNNL-17274

Related Categories/Sub-categories:

- 68F (Radiation Pollution & Control)

DE2008-934586

Desalination Utilizing Clathrate Hydrates (LDRD Final Report).

Department of Energy.  
2008, 80p

SAND2007-6565

Related Categories/Sub-categories:

- 99B (Industrial Chemistry & Chemical Process Engineering)

DE2008-936319

Testing of a Rotary Microfilter to Support Hanford Applications.

Department of Energy.  
2008, 51p

WSRC-STI-2008-00339

Related Categories/Sub-categories:

- 41L (Tribology)
- 46B (Fluid Mechanics)
- 77 (Nuclear Science & Technology)
- 77F (Radiation Shielding, Protection, & Safety)

ADA490244

Demonstration of Remotely Operated Vehicles to Aid Underwater Inspection of Corps of Engineers Navigation Structures. Winfield Locks and Dam 13-17 August 2007.

U.S. Army Corps of Engineers

2008, 36p

ERDC/CRREL-TR-08-15

Related Categories/Sub-categories:

- 62 (Computers, Control & Information Theory)
- 63A (Acoustic Detection)
- 76D (Navigation Systems)

ADA488908

Perchlorate Contamination of Drinking Water: Regulatory Issues and Legislative Actions.

Congressional Research Service

2008, 7p

Related Categories/Sub-categories:

- 68G (Environmental Health & Safety)
- 99D (Basic & Synthetic Chemistry)
- 99F (Physical & Theoretical Chemistry)

ADA488763

Technical Guidelines for Environmental Dredging of Contaminated Sediments.

Department of Defense.

2008, 302p

ERDC/EL-TR-08-29

Related Categories/Sub-categories:

- 68C (Solid Wastes Pollution & Control)
- 99F (Physical & Theoretical Chemistry)

ADA488666

Detection and Evaluation of Scour Protection for Navigation Dams.

Department of Defense.

2008, 68p

ERDC/CHL-TR-08-14

Related Categories/Sub-categories:

- 71L (Materials Degradation and Fouling)

ADA486622

CMS-Wave: A Nearshore Spectral Wave Processes Model for Coastal Inlets and Navigation Projects.

Department of Defense.

2008, 132p

ERDC/CHL-TR-08-13

Related Categories/Sub-categories:

- 47C (Physical & Chemical Oceanography)
- 48 (Natural Resources & Earth Sciences)
- 62B (Computer Software)

ADA486615

Combined Wave and Surge Overtopping of Levees: Flow Hydrodynamics and Articulated Concrete Mat Stability.

Department of Defense.

2008, 184p

ERDC/CHL-TR-08-10

Related Categories/Sub-categories:

- 48G (Hydrology & Limnology)
- 49(Electrotechnology)

ADA485775

Condition Assessment Methodology for Spillways.

U.S. Army Corps of Engineers

2008, 126p

ERDC/CERL-TR-08-10

Related Categories/Sub-categories:

- 48G (Hydrology & Limnology)

## Coming Soon

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U.S. Department of Commerce

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## Category 71: Materials Science

PB2009105251

X-Ray Microtomography Studies of Air-Void Instability and Growth During Drying of Tile Adhesive Mortars.

National Institute of Standards and Technology. 2008, 41p

NISTIR-7532

Related Categories/Sub-categories:

89G (Construction Materials, Components, & Equipment)

PB2009103054

Biofuels, Bioenergy, and Bioproducts from Sustainable Agricultural and Forest Crops: Proceedings of the Short Rotation Crops International Conference, Bloomington, Minnesota, USA, August 19-21, 2008.

Forest Service.

2008, 89p

GTR-MRS-P-31

Related Categories/Sub-categories:

95C (Biomedical Instrumentation & Bioengineering)

97K (Fuels)

98D (Agronomy, Horticulture, & Plant Pathology)

PB2009103033

Usura Dei Tessuti Dentali Indotta da Ciclo Masticatorio Simulation In Vitro: Risultati dei Lavori in Corso (Dental Tissue Wear induced by in Vitro Simulated Chewing Cycle: Results of Working in Progress).

Istituto Superiore di Sanita, Roma (Italy).

2008, 29p

ISTISAN-08/14

Related Categories/Sub-categories:

46C (Optics & Lasers)

57G (Dentistry)

PB2009102904

Exploratory Study: Assessment of Modeled Dioxin Exposure in Ceramic Art Studios.

Environmental Protection Agency.

2008, 154p

EPA/600/R-06/044F

Related Categories/Sub-categories:

92D (Education, Law, & Humanities)

99D (Basic & Synthetic Chemistry)

PB2009102901

Certification of SRM 46H.

National Institute of Standards and Technology

2008, 37p

NIST-SP-260-169

Related Categories/Sub-categories:

50C (Construction Equipment, Materials, & Supplies)

89G (Construction Materials, Components, & Equipment)

96 (Business & Economics)

PB2009102117

Guidelines for Routine Maintenance of Concrete Pavement.

Federal Highway Administration.

2008, 146p

REPT-0-5821-1

Related Categories/Sub-categories:

50A (Highway Engineering)

50C (Construction Equipment, Materials, & Supplies)

94J (Nondestructive Testing)

PB2009101821

Assessment of a Medium-Scale, Polyurethane Foam Flammability Test.

National Institute of Standards and Technology.

2008, 46p

NIST-TN-1495

Related Categories/Sub-categories:

81A (Combustion & Ignition)

89H (Building Equipment, Furnishings, & Maintenance)

PB2009101781

NTP-CERHR Monograph on the Potential Human Reproductive and Developmental Effects of Bisphenol A.

2008, 321p

NIH PUB-08-5994

Related Categories/Sub-categories:

57Y (Toxicology)

68G (Environmental Health & Safety)

99 (Chemistry)

PB2009100865

Early Warning Corrosion Detection in Post Tensioned Tendons.

Federal Highway Administration.

2008, 72p

Related Categories/Sub-categories:

50A (Highway Engineering)

50C (Construction Equipment, Materials, & Supplies)

PB2009100659

Field Studies of Concrete Containing Salts of an Alkenyl-Substituted Succinic Acid.

Department of Transportation.

2008, 135p

Related Categories/Sub-categories:

50A (Highway Engineering)

50C (Construction Equipment, Materials, & Supplies)

85H (Road Transportation)

PB2009100651

Preservation of Missouri Transportation Infrastructures: Life Expectancy Modeling for FRP Strengthened Concrete Bridges.

Department of Transportation.

2008, 151p

UTC-R95

Related Categories/Sub-categories:

50A (Highway Engineering)

50C (Construction Equipment, Materials, & Supplies)

85H (Road Transportation)

89D (Structural Analyses)

99C (Polymer Chemistry)

PB2008114103

Mineral Commodity Summaries, 2008.

Geological Survey.

2008, 202p

Related Categories/Sub-categories:

48A (Mineral Industries)

96A (Domestic Commerce, Marketing, & Economics)

96C (International Commerce, Marketing, & Economics)

PB2008112936

Production, Prices, Employment, and Trade in Northwest Forest Industries, All Quarters 2007.

Forest Service

2008, 86p

Related Categories/Sub-categories:

48D (Forestry)

96C (International Commerce, Marketing, & Economics)

PB2008112929

Feasibility of Rehabilitating Timber Bridges with Mechanically Fastened FRP Strips.

Department of Transportation.

2008, 206p

MRUTC-08-02

Related Categories/Sub-categories:

50A (Highway Engineering)

89D (Structural Analyses)

PB2008112316

Field Implementation of Geopolymer Coatings.

Federal Highway Administration.

2008, 51p

Related Categories/Sub-categories:

50A (Highway Engineering)

50C (Construction Equipment, Materials, & Supplies)



## Category 71: Materials Science

PB2008112247

Synthesis of Biomass Utilization for Bioenergy Production in the Western United States.

Forest Service.

2008, 54p

FSGTR-PNW-753

Related Categories/Sub-categories:

48D (Forestry)

97K (Fuels)

97R (Environmental Studies)

DE2008940906

Thin Film Packaging Solutions for High Efficiency OLED Lighting Products (Subcontract No. DE-FC05-NT42344).

Department of Energy.

2008, 33p

Related Categories/Sub-categories:

46C (Optics & Lasers)

49E (Optoelectronic Devices & Systems)

DE2008940905

Oxygen Transport Ceramic Membranes. Final Report, July 1999 – August 2008.

Department of Energy.

2008, 328p

Related Categories/Sub-categories:

99B (Industrial Chemistry & Chemical Process Engineering)

DE2008940680

Novel High Efficiency Photovoltaic Devices Based on the III-N Material System. Final Technical Report, 7 December 2005-29 August 2008.

Department of Energy.

2008, 15p

Related Categories/Sub-categories:

97N (Solar Energy)

97M (Batteries and Components)

DE2008939185

Advanced Integration of Multi-Scale Mechanics and Welding Process Simulation in Weld Integrity Assessment, (Final).

Department of Energy.

2008, 201p

DOE/GO/14040-1

Related Categories/Sub-categories:

41J (Tooling, Machinery, & Tools)

97G (Policies, Regulations & Studies)

97K (Fuels)

DE2008937046

Materials Science and Technology Teachers Handbook.

Department of Energy

2008, 353p

PNNL-17764

Related Categories/Sub-categories:

88E (Reference Materials)

92D (Education, Law, & Humanities)

DE2008936860

United States Department of Energy Office of Environmental Management International Program Annual Report for 2007.

Department of Energy.

2008, 29p

SRNS-STI-2008-00064

Related Categories/Sub-categories:

77G (Radioactive Wastes & Radioactivity)

99D (Basic & Synthetic Chemistry)

DE2008935440

Basic Research Needs for Materials Under Extreme Environments. Report of the Basic Energy Science Workshop for Materials under Extreme Environments.

Department of Energy.

2008, 280p

Related Categories/Sub-categories:

97 (Energy)

DE2008935388

Cost-Effective Method for Producing Self Supported Palladium Alloy Membranes for Use in Efficient Production of Coal Derived Hydrogen, (Final).

Department of Energy.

2008, 73p

Related Categories/Sub-categories:

97F (Fuel Conversion Processes)

99F (Physical & Theoretical Chemistry)

### Major Subject Categories

Category Codes*/Title	New for February Quantity**
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68 Environmental Pollution & Control .....	229
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74 Military Sciences .....	231
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76 Navigation, Guidance, & Control.....	11
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79 Ordnance .....	47
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96 Business & Economics .....	480
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\* 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.

## Category 89: Building Industry Technology

PB2009105447

Implementing HUD's Energy Strategy. Energy Task Force, Submitted Pursuant to Section 154 Energy Policy Act of 2005. Department of Housing and Urban Development. 2008, 74p

Related Categories/Sub-categories:

- 43E (Energy)
- 91E (Housing)
- 97G (Policies, Regulations & Studies)

PB2009105258

National Fire Service Research Agenda Symposium, June 1-3, 2005, Emmitsburg, MD. National Institute of Standards and Technology. 2008, 54p

NIST-GCR-08-918

Related Categories/Sub-categories:

- 44G (Environmental & Occupational Factors)
- 57U (Public Health & Industrial Medicine)
- 70D (Personnel Management, Labor Relations & Manpower Studies)
- 81A (Combustion & Ignition)

PB2009105252

Standards Development for Gas Phase Air Cleaning Equipment in Buildings.

Department of Homeland Security.

2008, 32p

NISTIR-7525

Related Categories/Sub-categories:

- 94E (Environmental Engineering)
- 97J (Heating & Cooling Systems)
- 99B (Industrial Chemistry & Chemical Process Engineering)

PB2009103995

Creating a Global Building Inventory for Earthquake Loss Assessment and Risk Management.

Geological Survey.

2008, 110p

USGS-OFR-2008-1160

Related Categories/Sub-categories:

- 48F (Geology & Geophysics)

PB2009103223

Role of Alkalis and Sulfates of Portland Cement on Durability of Florida Structures.

Federal Highway Administration.

2008, 106p

Related Categories/Sub-categories:

- 50C (Construction Equipment, Materials, & Supplies)

PB2009102805

Residential Structure and Building Fires.

Federal Emergency Management Agency.

2008, 84p

Related Categories/Sub-categories:

- 81A (Combustion & Ignition)
- 91C (Fire Services, Law Enforcement, & Criminal Justice)
- 91E (Housing)

PB2009102368

Engineering Properties of Douglas-Fir Lumber Reclaimed from Deconstructed Buildings.

Forest Service.

2008, 51p

FPL-FSRP-650

Related Categories/Sub-categories:

- 71M (Miscellaneous Materials)
- 71R (Wood & Paper Products)

PB2009102311

Modal Analysis of Generally Damped Linear Structures Subjected to Seismic Excitations.

Federal Highway Administration.

2008, 228p

MCEER-08-0005

Related Categories/Sub-categories:

- 46E (Structural Mechanics)

PB2009102037

Seismic Design of Reinforced Concrete Special Moment Frames: A Guide for Practicing Engineers. NEHRP Seismic Design Technical Brief No. 1.

National Institute of Standards and Technology

2008, 31p

NIST/GCR-8-917-1

Related Categories/Sub-categories:

- 48F (Geology and Geophysics)
- 50B (Civil Engineering)

PB2009101984

Final Report on the Collapse of World Trade Center Building 7.

National Institute of Standards and Technology

2008, 130p

NIST-NCSTAR-1A

Related Categories/Sub-categories:

- 43D (Police, Fire, & Emergency Services)
- 91C (Fire Services, Law Enforcement, & Criminal Justice)
- 91I (Emergency Services & Planning)

PB2009100874

Timber Failure Mechanisms in High-Capacity Dowelled Connections of Timber to Steel.

Valtion Teknillinen Tutkimuskeskus, Espoo

(Finland).

2008, 98p

VTT-PUBS-677, ISBN-978-951-38-7090-4

Related Categories/Sub-categories:

- 71R (Wood & Paper Products)
- 71J (Iron and Iron Alloy)

PB2009100834

Prevention of Splitting Failure at Ends of Prestressed Beams During Fabrication, Final Report.

Florida State Dept. of Transportation.

2008, 237p

Related Categories/Sub-categories:

- 50C (Construction Equipment, Materials, & Supplies)

PB2009100808

Green Affordable Housing: HUD Has Made Progress in Promoting Green Building, but Expanding Efforts Could Help Reduce Energy Costs and Benefit Tenants.

Government Accountability Office

2008, 68p

GAO-09-46

Related Categories/Sub-categories:

- 91E (Housing)
- 97B (Energy Use, Supply, & Demand)
- 97G (Policies, Regulations & Studies)

PB2009100629

Anchorage of Large-Diameter Reinforcing Bars Grouted into Ducts.

Federal Highway Administration.

2008, 148p

Related Categories/Sub-categories:

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

PB2009100616

Analysis of Needs and Existing Capabilities for Full-Scale Fire Resistance Testing. (Revision).

National Institute of Standards and Technology.

2008, 98p

NIST/GCR-02-843-1-REV

Related Categories/Sub-categories:

- 43D (Police, Fire, & Emergency Services)
- 91C (Fire Services, Law Enforcement, & Criminal Justice)

PB2008114265

Energy-Efficient, Mold Resistant Materials and Construction Practices for New California Homes. Final Report.

California Energy Commission.

2008, 118p

CEC-500-2007-036

Related Categories/Sub-categories:

- 50C (Construction Equipment, Materials, & Supplies)
- 68 (Environmental Pollution & Control)
- 97B (Energy Use, Supply, & Demand)

PB2008114264

New Solar Homes Partnership Revised Second Edition.

California Energy Commission.

2008, 81p

CEC-300-2008-006-D

Related Categories/Sub-categories:

- 46D (Solid State Physics)
- 49 (Electrotechnology),
- 96 (Business & Economics)
- 97B (Energy Use, Supply, & Demand)
- 97N (Solar Energy)



## Category 89: Building Industry Technology

DE2008939005

Technical Support Document: Development of the Advanced Energy Design Guide for Grocery Stores - 50 per cent Energy Savings.

Department of Energy.

2008, 171p

NREL/TP-550-42829

Related Categories/Sub-categories:

97B (Energy Use, Supply, & Demand)

DE2008938999

Technical Support Document: Development of the Advanced Energy Design Guide for Medium Box Retail - 50 per cent Energy Savings.

Department of Energy.

2008, 218p

NREL/TR-550-42828

Related Categories/Sub-categories:

97B (Energy Use, Supply, & Demand)

97G (Policies, Regulations & Studies)

DE2008938573

Lost Opportunities in the Buildings Sector: Energy-Efficiency Analysis and Results.

Department of Energy

2008, 94p

PNNL-17623

Related Categories/Sub-categories:

97B (Energy Use, Supply, & Demand)

97G (Policies, Regulations & Studies)

97J (Heating & Cooling Systems)

97G (Policies, Regulations & Studies)

ADA481630

Resistance of Membrane Retrofit Concrete Masonry Walls to Lateral Pressure.

Department of Defense.

2008, 163p

Related Categories/Sub-categories:

62B (Computer Software)

79E (Detonations, Explosion Effects, & Ballistics)

ADA480723

Selecting the Best Thermal Building Insulation Using a Multi-Attribute Decision Model.

Department of Defense.

2008, 118p

AFIT/GEM/ENV/08-M17

Related Categories/Sub-categories:

71M (Miscellaneous Materials)

44G (Environmental & Occupational Factors)

89D (Structural Analyses)

89G (Construction Materials, Components, & Equipment)

ADA479909

Sustainable Design Policy and Leadership in Energy and Environmental Design Certification.

Department of Defense.

2008, 105p

AFIT/GEM/ENV/08-M14

Related Categories/Sub-categories:

74 (Military Sciences)

97G (Policies, Regulations & Studies)

## Category 91: Urban & Regional Technology & Development

PB2009105649

National Gang Threat Assessment, 2009.

National Drug Intelligence Center.

2009, 48p

REPT-2009-M0335-001

Related Categories/Sub-categories:

43D (Police, Fire, & Emergency Services)

92C (Social Concerns)

PB2009105625

Annual Superfund Report to Congress for Fiscal Year 2008.

Environmental Protection Agency.

2009, 22p

EPA/350/R-09-001

Related Categories/Sub-categories:

43F (Environment)

68 (Environmental Pollution & Control)

PB2009105612

Sexually Transmitted Disease Surveillance 2007.

National Center for HIV, STD, and TB Prevention.

2008, 194p

Related Categories/Sub-categories:

43C (Human Resources)

44C (Community & Population Characteristics)

57U (Public Health & Industrial Medicine)

PB2009105459

Quality Control for Rental Assistance Subsidies Determinations. Final Report for FY 2007.

Department of Housing and Urban Development.

2008, 208p

Related Categories/Sub-categories:

43C (Human Resources)

92C (Social Concerns)

PB2009105448

State of the Housing Counseling Industry.

Department of Housing and Urban Development

2008, 231p

Related Categories/Sub-categories:

43C (Human Resources)

91K (Social Services)

92C (Social Concerns)

PB2009105445

Highlights of Women's Earnings in 2007.

Bureau of Labor Statistics.

2008, 41p

RPT-1008

Related Categories/Sub-categories:

70D (Personnel Management Labor Relations & Manpower Studies)

92C (Social Concerns)

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## Category 91: Urban & Regional Technology & Development

PB2009105314

Guidebook for Measuring, Assessing, and Improving Performance of Demand-Response Transportation.

Federal Transit Administration.

2008, 132p

TRB/TCRP-124, ISBN-978-0-309-09923-3

Related Categories/Sub-categories:

43G (Transportation)

85H (Road Transportation)

PB2009105312

Predicted and Actual Impacts of New Starts Projects - 2007. Capital Cost and Ridership.

Federal Transit Administration.

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