

Flood Control

ADA565718

Potential Natural Vegetation of the Mississippi Alluvial Valley: Bayou Meto Basin, Arkansas, Field Atlas.

Army Engineer Waterways Experiment Station, Vicksburg, MS. Environmental Lab.

2012, 91p

ERDC/EL-TR-12-24

Related Categories/Subcategories

57C (Botany)

57Z (Zoology)

48 (Natural Resources & Earth Sciences)

48F (Geology & Geophysics)

Keywords: Basins(Geographic), Vegetation, Wetlands, Arkansas.

ADA550495

Morganza to the Gulf of Mexico Floodgate Study.

Engineer Research and Development Center, Vicksburg, MS. Coastal and Hydraulics Lab.

2011, 184p

ERDC/CHL TR-11-6

Related Categories/Subcategories

48G (Hydrology & Limnology)

50B (Civil Engineering)

46B (Fluid Mechanics)

Keywords: Canals, Construction, Louisiana.

PB2012104010

Evaluation of the LA 1 Bridge at the Morganza Flood Control Structure.

Louisiana Transportation Research Center, Baton Rouge.

2010, 25P

FHWA/LA-10/11-ITA

Related Categories/Subcategories

50B (Civil Engineering)

50C (Construction Equipment, Materials, & Supplies)

Keywords: Flood control, Bridges, Concrete, Deterioration.

ADA568506

Army Corps Supplemental Appropriations: Recent History, Trends, and Policy Issues.

Congressional Research Service, Washington, DC.

2012, 15p

R42841

Related Categories/Subcategories

48G (Hydrology & Limnology)

41G (Quality Control & Reliability)

Keywords: Domestic, Flooding, Natural disasters.



ADA569534

Two Dimensional Hydrodynamic Analysis of the Moose Creek Floodway.

Army Engineer Waterways Experiment Station, Vicksburg, MS. Coastal Hydraulics Lab.

2012, 45p

ERDC/CHL-TR-12-20

Related Categories/Subcategories

50B (Civil Engineering)

46B (Fluid Mechanics)

Keywords: Flood control, Hydraulics, Alaska.

ADA570343

Complete Soil-Structure Interaction (SSI) Analyses of I-walls Embedded in Level Ground During Flood Loading.

Engineer Research and Development Center, Vicksburg, MS. Information Technology Lab.

2012, 372p

ERDC/ITL-TR-12-4

Related Categories/Subcategories

48G (Hydrology & Limnology)

50B (Civil Engineering)

Keywords: Flood control, Levees, Clay, Finite element analysis.

Newsletter

National Technical Reports Library

Purpose: To bring you a sampling of 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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ADA570387

Quantification and Evolution of Resilience in Integrated Coastal Systems.

Army Engineer Waterways Experiment Station, Vicksburg, MS. Environmental Lab. 2012, 77p

Related Categories/Subcategories

70B (Management Practice)

50B (Civil Engineering)

47 (Ocean Sciences & Technology)

Keywords: Environmental management, Coastal regions, Ecosystems.

ADA571679

EnviroFish, Version 1.0: User's Manual.

Army Engineer Waterways Experiment Station, Vicksburg, MS. Environmental Lab. 2012, 127p

ERDC/EL-TR-12-19

Related Categories/Subcategories

57C (Botany)

57Z (Zoology)

57H (Ecology)

48G (Hydrology & Limnology), 62B (Computer Software)

Keywords: Computer programs, Flood plains, Habitats.

ADA436324

Flood Control Project, Bear Creek Stage 4, Rochester, Minnesota: Design Memorandum No. 6.

Corps of Engineers, St. Paul, MN. St. Paul District. 1992, 728p

Related Categories/Subcategories

50B (Civil Engineering)

Keywords: Rivers, Flood control, Minnesota.

ADA437029

South Fork Zumbro River Stage 1B, Rochester, Minnesota. Design Memorandum Number 2, Flood Control Project.

Corps of Engineers, St. Paul, MN. St. Paul District. 1987, 537p

M30-DM-11

Related Categories/Subcategories

96 (Business & Economics)

50B (Civil Engineering)

46B (Fluid Mechanics)

Keywords: Floods, Flood control, Cost estimates, Silver Lake Dam.

ADA529310

Numerical Model of the Hoosic River Flood-Control Channel, Adams, MA.

Army Engineer Waterways Experiment Station, Vicksburg, MS. Coastal Hydraulics Lab. 2010, 113p

ERDC/CHL-TR-10-1

Related Categories/Subcategories

48G (Hydrology & Limnology)

46B (Fluid Mechanics)

Keywords: Flood control, Mathematical models, Rivers.

PB2008107733

Assessment of Structural Flood-Control Measures on Alluvial Fans.

Corps of Engineers, Davis, CA. Hydrologic Engineering Center. 1993, 103 p.

1993, 103 p.

Related Categories/Subcategories

48G (Hydrology & Limnology)

48F (Geology & Geophysics)

50B (Civil Engineering)

Keywords: Flood control, Alluvial fans, Geomorphology, California.

PB2008108080

Water Quality in the Conservation Areas of the Central and Southern Florida Flood Control District, 1970-72

Geological Survey, Tallahassee, FL. Water Resources Div. 1973, 42p

USGS/OFR-73014

Related Categories/Subcategories

68D (Water Pollution & Control)

48G (Hydrology & Limnology)

Keywords: Conservation, Water quality, Florida.

PB2009109634

2007 Flood Control and Navigation Maps

Mississippi River Cairo, Illinois to the Gulf of Mexico Mile 953 to Mile O.A.H.P. 62nd Edition.

Corps of Engineers Lower Mississippi Valley Div., New Orleans, LA. 2006, 316p

2006, 316p

Related Categories/Subcategories

50B (Civil Engineering)

76 (Navigation, Guidance, & Control)

Keywords: Flood control, Navigation, Maps, Mississippi River.

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PB2010109832

Environmental Assessment. Rehabilitation and Repair Root River and Rush Creek Flood Control Project, Rushford, Minnesota.

U.S. Army Corps of Engineers, St. Paul, MN. St. Paul District. 2008, 78p

2008, 78p

Related Categories/Subcategories

57H (Ecology)

50B (Civil Engineering)

Keywords: Environmental management, Flood control, Root River (Minnesota).

PB2010111564

Upper Columbia Alternative Flood Control and Fish Operations.

Bureau of Reclamation, Denver, CO. 2010, 12p

2010, 12p

Related Categories/Subcategories

48 (Natural Resources & Earth Sciences)

50B (Civil Engineering)

Keywords: Upper Columbia, Flood control, Fish operations.

PB2011110210

Documentation and Demonstration of a Process for Risk Analysis of Proposed Modifications to the Sacramento River Flood Control Project (SRFCP) Levees.

Hydrologic Engineering Center, Davis, CA. **WEST Consultants, Inc., Salem OR. 2009, 246p

2009, 246p

HEC-PR-71

Related Categories/Subcategories

48G (Hydrology & Limnology)

50C (Construction Equipment, Materials, & Supplies)

Keywords: Proposed modifications, Risk analysis processes, California, Levees.

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**

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—NTIS Director Bruce Borzino
testimony from Senate Hearing 7/23/2014.

Major Subject Categories

Category Codes*/Title	New for July Quantity**
41 Manufacturing Technology	62
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48 Natural Resources & Earth Sciences	175
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72 Mathematical Sciences	81
74 Military Sciences.....	416
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76 Navigation, Guidance, & Control.....	13
77 Nuclear Science & Technology	50
79 Ordnance	41
81 Combustion, Engines, & Propellants.....	59
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84 Space Technology	131
85 Transportation.....	146
88 Library & Information Sciences	69
89 Building Industry Technology	51
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92 Behavior & Society.....	472
94 Industrial & Mechanical Engineering.....	65
95 Biomedical Technology & Human Factors Engineering.....	43
96 Business & Economics	159
97 Energy	152
98 Agriculture & Food.....	104
99 Chemistry.....	92

* Scope Notes define the specific topical content for each category;

<http://www.ntis.gov/assets/pdf/scopenotes.pdf>

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

PB2007111778

San Timoteo Creek Habitat Enhancement Project.
Environmental Assessment.

City of Loma Linda, CA.

2007, 81p

Related Categories/Subcategories

48B (Natural Resource Management)

48G (Hydrology & Limnology)

50B (Civil Engineering)

Keywords: Habitat, Preservation, Loma Linda (California).

ADA522254

Job Loss and Infrastructure Job Creation Spending During the Recession.

Congressional Research Service, Washington, DC.
2010, 16p

CRS-R40080

Related Categories/Subcategories

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

88D (Personnel)

92A (Job Training & Career Development)

Keywords: Jobs, Infrastructure, Economics, Flood control.

PB2013105154

Environmental Assessment: St. Maries Federally Authorized Levee Rehabilitation of Flood Control Works, Benewah County, Idaho.

U.S. Army Corps of Engineers, Seattle, WA. Seattle District

2012, 109P

Related Categories/Subcategories

68 (Environmental Pollution & Control)

50B (Civil Engineering)

48G (Hydrology & Limnology)

89D (Structural Analyses)

Keywords: Environmental impact, Levees, Flood control, Idaho.

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.

PB2013105336

Effects of Flood Control and Other Reservoir Operations of the Water Quality of the Lower Roanoke River, North Carolina. Geological Survey, Reston, VA.**U.S. Army Corps of Engineers, Washington, DC. 2012, 50P USGS-SIR 2012-5101

Related Categories/Subcategories

50B (Civil Engineering)
48G (Hydrology & Limnology)
911 (Emergency Services & Planning)
Keywords: Floods, Reservoirs, Water quality, Flood control.

ADA159088

Report of Intensive Cultural Resource Survey, Flood Control Project, Hannibal, Marion County, Missouri. Missouri Univ.-St. Louis. Archaeological Survey. 1985, 257p RR-31

Related Categories/Subcategories

92D (Education, Law, & Humanities)
Keywords: Archaeology, Culture, Flood control, Missouri.

ADA161291

Ste. Genevieve, Missouri Feasibility Report (Flood Control Study for Historic Ste. Genevieve - 80061). Volume 1. Main Report Public Views and Responses. Army Engineer District, St. Louis, MO. 1985, 304p

Related Categories/Subcategories

50B (Civil Engineering)
48G (Hydrology & Limnology)
Keywords: Flood control, Protection, Preservation, Missouri.

ADA161612

Ste. Genevieve, Missouri Feasibility Report (Flood Control Study for Historic Ste. Genevieve - 80061). Volume 2. Appendices. Army Engineer District, St. Louis, MO. 1984, 583p

Related Categories/Subcategories

50B (Civil Engineering)
48G (Hydrology & Limnology)
Keywords: Flood control, Channels, Communities, Mississippi river, Missouri.

ADA161288

Ste. Genevieve, Missouri Feasibility Report (Flood Control Study for Historic Ste. Genevieve - 80061). Volume 3. Plates for Appendices. Army Engineer District, St. Louis, MO. 1984, 76p

Related Categories/Subcategories

50B (Civil Engineering)
48G (Hydrology & Limnology)
Keywords: Flood control, Mississippi river, Floods.

ADA250057

Flood Control and Other Water-Related Purposes, Wyaconda River Basin, Missouri and Iowa. Revision. Army Engineer District, Rock Island, IL. 1991, 129p

Related Categories/Subcategories

50B (Civil Engineering)
48G (Hydrology & Limnology)
Keywords: Flood control, Reconnaissance, Missouri, Iowa, Dams.

ADA353116

Flood Control, Mississippi River & Tributaries. Mississippi River Mainline Levees Enlargement and Seepage Control, Cape Girardeau, Missouri to Head of Passes, LA. Volume I: Appendices 1-4. Corps of Engineers, Vicksburg, MS. 1998, 359p

Related Categories/Subcategories

50B (Civil Engineering)
48G (Hydrology & Limnology)
Keywords: Environmental impact, Mississippi River, Flood control.

ADA353114

Flood Control, Mississippi River & Tributaries. Mississippi River Mainline Levees Enlargement and Seepage Control, Cape Girardeau, Missouri to Head of Passes, LA. Volume II: Appendices 5-6. Corps of Engineers, Vicksburg, MS. 1998, 800p

Related Categories/Subcategories

68D (Water Pollution & Control)
48G (Hydrology & Limnology)
50B (Civil Engineering)
Keywords: Environmental impact, Mississippi River, Flood control.

ADA353115

Flood Control, Mississippi River & Tributaries. Mississippi River Mainline Levees Enlargement and Seepage Control, Cape Girardeau, Missouri to Head of Passes, LA. Volume III: Appendices 7-17. Corps of Engineers, Vicksburg, MS. 1998, 621p

Related Categories/Subcategories

68D (Water Pollution & Control)
48G (Hydrology & Limnology)
50B (Civil Engineering)
Keywords: Environmental impact, Mississippi River, Flood control.



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- Energy
- Environmental Pollution and Control
- Government Inventions for Licensing
- Health Care
- Manufacturing Technology
- Materials Sciences
- Ocean Sciences and Technology
- Transportation

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PB2014105622

Washita Basin Project - Oklahoma Foss Reservoir Area and Capacity Tables.

Bureau of Reclamation, Denver, CO. Technical Service Center.

2009, 50p

Related Categories/Subcategories

8B (Natural Resource Management)

48G (Hydrology & Limnology)

57H (Ecology)

57Z (Zoology)

98F (Fisheries & Aquaculture)

Keywords: Birds, Monitoring, Dams, Tables(Data), Oklahoma.

PB2014107934

Foss Reservoir 2009 Sedimentation Survey.

Bureau of Reclamation, Denver, CO. Technical Service Center.

2011, 35p

SRH-2011-01

Related Categories/Subcategories

48G (Hydrology & Limnology)

50B (Civil Engineering)

Keywords: Reservoirs, Sedimentation, Oklahoma.

PB85185593

Salvage Excavations of Prehistoric Human Burials at Altus and Foss Reservoirs, Southwestern Oklahoma: 1980-1984.

Bureau of Reclamation, Amarillo, TX. Southwest Region.

1985, 84p

BR-OK-CRI-001

Related Categories/Subcategories

92D (Education, Law, & Humanities)

Keywords: Archaeology, Excavation, Altus Reservoir, Foss Reservoir.

PB2011110959

W. C. Austin Project.

Bureau of Reclamation, Denver, CO.

1994, 24p

Related Categories/Subcategories

50B (Civil Engineering)

50C (Construction Equipment, Materials, & Supplies)

48G (Hydrology & Limnology)

Keywords: Dams, Irrigation, Flood control, Oklahoma.

ADA403170

Red River Below Denison Dam, Texas, Oklahoma, Arkansas, and Louisiana.

Army Engineer Waterways Experiment Station Vicksburg, MS. Coastal Hydraulics Lab.

2002, 65p

ERDC/CHL-TR-02-5

Related Categories/Subcategories

48G (Hydrology & Limnology)

48E (Soil Sciences)

50D (Soil & Rock Mechanics)

Keywords: Mathematical models, Rivers, Sedimentation, Flood control.

ADA154643

National Program for Inspection of Non-Federal Dams. Foss Reservoir Dam (MA 00339), Merrimack River Basin, Framingham, Massachusetts. Phase 1 Inspection Report.

Corps of Engineers, Waltham, MA. New England Div.

1981, 80p

Related Categories/Subcategories

50B (Civil Engineering)

Keywords: Earth dams, Dams, Inspection, Massachusetts.

ADA582139

Regional Sediment Management (RSM) Principles in Flood Recovery: Incorporating RSM after the 2011 Missouri River Flood.

Army Engineer Waterways Experiment Station, Vicksburg, MS. Coastal Hydraulics Lab.

2013, 11p

ERDC/CHL CHETN-XIV-29

Related Categories/Subcategories

50B (Civil Engineering)

91A (Environmental Management & Planning)

Keywords: Flood control, Damage, Environmental management, Missouri river.

ADA156379

Arkansas River Basin Coordinating Committee. Report on 1977 Activities.

Corps of Engineers, Dallas, TX. Southwestern Div.

1978, 84p

Related Categories/Subcategories

50B (Civil Engineering)

48G (Hydrology & Limnology)

85G (Marine & Waterway Transportation)

Keywords: Rivers, Navigation, Arkansas, Oklahoma.

ADA582967

Improved Reliability Models for Mechanical and Electrical Components at Navigation Lock and Dam and Flood Risk Management Facilities.

Construction Engineering Research Lab. (Army), Champaign, IL. Engineer Research and Development Center.

2013, 114p

ERDC/CERL-TR-13-4

Related Categories/Subcategories

48G (Hydrology & Limnology)

50B (Civil Engineering)

46E (Structural Mechanics)

Keywords: Electronics, Flood control, Mechanical components, Dams.

PB2010103353

Flood of April 2007 and Flood-Frequency Estimates at Streamflow-Gaging Stations in Western Connecticut.

Geological Survey, Reston, VA.

2009, 44p

SIR2009-5108

Related Categories/Subcategories

48G (Hydrology & Limnology)

50B (Civil Engineering)

Keywords: Floods, Stream flow, Gaging stations, Connecticut.

PB2013106162

Analysis of the Sandy Recovery Improvement Act of 2013, March 11, 2013.

Congressional Research Service, Washington, DC. 2013, 31p

Related Categories/Subcategories

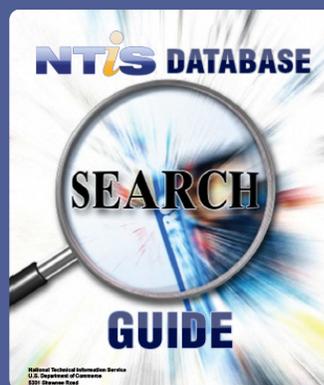
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

91I (Emergency Services & Planning)

43D (Police, Fire, & Emergency Services)

47B (Dynamic Oceanography)

Keywords: Hurricanes, Recovery, Meteorological data, Flood control.

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PB2013106482

Evaluation of Design Methods to Determine Scour Depths for Bridge Structures.

Louisiana State Univ., Baton Rouge. Dept. of Civil and Environmental Engineering.**Louisiana Transportation Research Center, Baton Rouge. 2013, 126p
LTRC-08-3ST

Related Categories/Subcategories

50A (Highway Engineering)
50B (Civil Engineering)
48G (Hydrology & Limnology)
Keywords: Bridges, Scour, Flood control.

PB2013107006

Development of Flood Profiles and Flood-Inundation Maps for the Village of Killbuck, Ohio.

Geological Survey, Reston, VA.

2013, 15p
USGS-OFR-2013-1032

Related Categories/Subcategories

48G (Hydrology & Limnology)
50B (Civil Engineering)
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
91I (Emergency Services & Planning)
43D (Police, Fire, & Emergency Services)
Keywords: Floods, Warning systems, Ohio.

PB2013108172

Virginia Local Official's Guide to Floodplain Management: Guidance for Those Regulating Development in the Floodplain.

Virginia Dept. of Conservation and Recreation, Richmond.

2013, 188p

Related Categories/Subcategories

48B (Natural Resource Management)
70B (Management Practice)
70D (Personnel Management, Labor Relations & Manpower Studies)
89E (Building Standards & Codes)
Keywords: Flood plains, Natural resource management, Local government.

PB2014100130

Flood-Inundation Maps for the Wabash River at Terre Haute, Indiana.

Geological Survey, Reston, VA.**Indiana Dept. of Transportation, Indianapolis.

2013, 17p
USGS-SIM-3232

Related Categories/Subcategories

48G (Hydrology & Limnology)
48I (Cartography)
91A (Environmental Management & Planning)
Keywords: Flood mapping, Rivers, Indiana.

PB2014100191

Suspended-Sediment Loads and Reservoir Sediment Trap Efficiency for Clinton Lake, Kansas, 2010-12.

Geological Survey, Reston, VA.**Kansas Water Office, Topeka. 2013, 20p
USGS-SIR-2013-5153

Related Categories/Subcategories

48E (Soil Sciences)
48G (Hydrology & Limnology)
48B (Natural Resource Management)
68D (Water Pollution & Control)
Keywords: Sediment transport, Sediment loads, Clinton Lake (Kansas).

PB2014100812

Western Iowa Missouri River Flooding: Geo-Infrastructure Damage Assessment Repair and Mitigation Strategies.

Iowa State Univ., Ames.

2013, 269p
IHRB-TR-638

Related Categories/Subcategories

50B (Civil Engineering)
48G (Hydrology & Limnology)
Keywords: Flood control, Damage assessment, Missouri River.

PB2014103108

Army Corps of Engineers: Cost Increases in Flood Control Projects and Improving Communication with Nonfederal Sponsors.

Government Accountability Office, Washington, DC.

2013, 47p
GAO-14-35

Related Categories/Subcategories

50B (Civil Engineering)
48G (Hydrology & Limnology)
70B (Management Practice)
Keywords: Flood control, Costs, Army corps of engineers.

PB97162408

Legacy of the Flood of '93. A Working Conference on the Occupational and Environmental Health and Safety Issues. Held in St. Louis, Missouri on April 11-13, 1994.

Illinois Univ. at Chicago. Great Lakes Center for Occupational and Environmental Health and Safety.**National Inst. For Occupational Safety and Health, Cincinnati, OH.**Kent State Univ., OH.**Iowa Univ., Iowa City.**Wisconsin Univ.-Madison.

1994, 102p

Related Categories/Subcategories

43D (Police, Fire, & Emergency Services)
91I (Emergency Services & Planning)
98 (Agriculture & Food)
92B (Psychology),
44G (Environmental & Occupational Factors)
Keywords: Floods, Disasters, Economic impact, Occupational safety and health.

PB2006115276

Midwest Flood: Information on the Performance, Effects, and Control of Levees.

General Accounting Office, Washington, DC. Resources, Community, and Economic Div. 1995, 90p
GAO/RCED-95-125

Related Categories/Subcategories

50B (Civil Engineering)
Keywords: Levees, Flood control, Performance, 1993 Midwest flood.

ADA419436

Great Flood of 1993 Post-Flood Report. Upper Mississippi River and Lower Missouri River Basins.

Corps of Engineers, Chicago, IL. North Central Div.

1994, 94p

Related Categories/Subcategories

48G (Hydrology & Limnology)
Keywords: Floods, Mississippi river, Missouri river, Disasters.

FREE DOWNLOAD PB2013106483

Evaluation of Design Methods to Determine Scour Depths for Bridge Structures, Technical Summary.

Louisiana State Univ., Baton Rouge. Dept. of Civil and Environmental Engineering.**Louisiana Transportation Research Center, Baton Rouge.

2013, 2p

Related Categories/Subcategories

50A (Highway Engineering)
50B (Civil Engineering)
48G (Hydrology & Limnology)
Keywords: Bridges, Scour, Flood control.

FREE DOWNLOAD ADA551028

U.S. Army Corps of Engineers: Delivering Innovative, Sustainable Solutions to the Nation's Engineering Challenges.

Corps of Engineers, Washington, DC.

2011, 3p

Related Categories/Subcategories

48G (Hydrology & Limnology)
50 (Civil Engineering)
74 (Military Sciences)
Keywords: Civil engineering, Construction, Hydroelectricity.

FREE DOWNLOAD PB2013105453

Quantifying the Key Factors that Create Road Flooding, Technical Summary.

Louisiana State Univ., Baton Rouge.

2013, 2p

Related Categories/Subcategories

50B (Civil Engineering)
48G (Hydrology & Limnology)
91I (Emergency Services & Planning)
43D (Police, Fire, & Emergency Services)
Keywords: Roads, Floods, Coastal regions, Decision support systems.0

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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 by title.

NTIS Number	Category	Title
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PB2013106162	55	Analysis of the Sandy Recovery Improvement Act of 2013, March 11, 2013.
ADA156379	50	Arkansas River Basin Coordinating Committee. Report on 1977 Activities.
PB2014103108	50	Army Corps of Engineers: Cost Increases in Flood Control Projects and Improving Communication with Nonfederal Sponsors.
ADA568506	48	Army Corps Supplemental Appropriations: Recent History, Trends, and Policy Issues.
PB2008107733	48	Assessment of Structural Flood-Control Measures on Alluvial Fans.
ADA570343	48	Complete Soil-Structure Interaction (SSI) Analyses of I-walls Embedded in Level Ground During Flood Loading.
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