

CIVIL ENGINEERING/ PAVEMENTS

ADA581214

Laboratory and Field Evaluation of In-Place Asphalt Recycling Technologies for Small Airfield Repair. Engineer Research and Development Center, Vicksburg, MS. Geotechnical and Structures Lab. 2013, 138p
ERDC/GSL-TR-13-23

Related Categories/Subcategories:

50C (Construction Equipment, Materials, & Supplies)

Keywords: Asphalt, Landing fields, Pavements.

PB2012113592

Full-Depth Reclamation: New Test Procedures and Recommended Updates to Specifications. Texas Transportation Inst., College Station. 2012, 104p
FHWA/TX-11/0-06271-2

Related Categories/Subcategories:

50C (Construction Equipment, Materials, & Supplies)

50A (Highway Engineering)

Keywords: Ground penetrating radar, Flexible pavements, Pavement recycling.

PB2013103221

Use of Reclaimed Asphalt Pavement in Concrete Pavement Slabs. Florida Univ., Gainesville. Dept. of Civil and Coastal Engineering. 2012, 321p

Related Categories/Subcategories:

50A (Highway Engineering)

50C (Construction Equipment, Materials, & Supplies)

Keywords: Asphalt pavements, Recycling, Concrete slabs.

PB2013109405

Recycle Materials and Byproducts in Highway Applications: Volume 1: Summary Report. A Synthesis of Highway Practice. California State Univ., Chico. Concrete Industry Management Program. NCHRP-SYN-435-V1 2013, 103p

Related Categories/Subcategories:

50C (Construction Equipment, Materials, & Supplies)

50A (Highway Engineering)

68C (Solid Wastes Pollution & Control)

Keywords: Recycled materials, Highways, Byproducts.

Recycling



PB2013109412

Recycle Materials and Byproducts in Highway Applications: Volume 8: Manufactured and Construction Byproducts. A Synthesis of Highway Practice. California State Univ., Chico. Concrete Industry Management Program. 2013, 110p
NCHRP-SYN-435-V8

Related Categories/Subcategories:

50C (Construction Equipment, Materials, & Supplies)

50A (Highway Engineering)

68C (Solid Wastes Pollution & Control)

Keywords: Recycled materials, Highways, Byproducts.

Newsletter

National Technical Reports Library

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

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PB2012100265

Recycling and Reclamation of Asphalt Pavements Using In-Place Methods. National Cooperative Highway Research Program (NCHRP) Synthesis 421. A Synthesis of Highway Practice. Transportation Research Board, Washington, DC. 2011, 82p
NCRP-SYN-421

Related Categories/Subcategories:

50A (Highway Engineering)
50C (Construction Equipment, Materials, & Supplies)
68C (Solid Wastes Pollution & Control)
89G (Construction Materials, Components, & Equipment)
68A (Air Pollution & Control)
Keywords: Asphalt pavements, Recycling, Reclamation.

PB2011108668

Field and Laboratory Investigations for Full Depth Reclamation Projects. Texas Transportation Inst., College Station. 2011, 106p
REPT-0-6271-1

Related Categories/Subcategories:

50D (Soil & Rock Mechanics)
50A (Highway Engineering)
63H (Radiofrequency Detection)
Keywords: Ground penetrating radar, Pavement recycling, Tests.

PB2011103855

Cold-In-Place Recycling in New York State. Chesner Engineering P.C., Long Beach, NY. 2010, 248p

Related Categories/Subcategories:

50A (Highway Engineering)
50C (Construction Equipment, Materials, & Supplies)
Keywords: Pavement maintenance, Pavement recycling, New York (state).

PB2011113667

Reclaimed Asphalt Pavement in Asphalt Mixtures: State of the Practice. Federal Highway Administration, McLean, VA. Office of Infrastructure Research and Development. 2011, 60p
FHWA-HRT-11-021

Related Categories/Subcategories:

50C (Construction Equipment, Materials, & Supplies)
50A (Highway Engineering)
68C (Solid Wastes Pollution & Control)
Keywords: Asphalt pavements, Recycled materials, Hot mix paving mixtures.

PB2011108671

Analysis of Full-Depth Reclamation Trial Sections in Virginia. Virginia Center for Transportation Innovation and Research, Charlottesville, VA. 2011, 54p
VCTIR-11-R23

Related Categories/Subcategories:

50D (Soil & Rock Mechanics)
50A (Highway Engineering)
Keywords: Flexible pavements, Reclamation, Pavement design.

PB2013105729

Recycled Concrete Aggregate in Portland Cement Concrete. Rowan Univ., Glassboro, NJ. 2013, 100p
FHWA-NJ-2013-001

Related Categories/Subcategories:

50C (Construction Equipment, Materials, & Supplies)
50A (Highway Engineering)
Keywords: Aggregates, Recycled materials, Portland cement.

WASTE-TO-ENERGY

DE2009952162

Summary Report: Direct Approaches for Recycling Carbon Dioxide into Synthetic Fuel. Sandia National Labs., Albuquerque, NM. 2009, 41p
SAND2009-0399

Related Categories/Subcategories:

97F (Fuel Conversion Processes)
97K (Fuels)
99F (Physical & Theoretical Chemistry)
Keywords: Synthetic fuel, Recycling carbon dioxide, Hydrocarbon fuels.

PB2012111191

Energy Management and Conservation Program. FY 2011 Annual Report. Environmental Protection Agency, Washington, DC. 2012, 47p

Related Categories/Subcategories:

97G (Policies, Regulations & Studies)
48B (Natural Resource Management)
43E (Energy)
Keywords: Energy management, Energy conservation, Energy efficiency performance

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PB2013102778

State of Practice for Emerging Waste Conversion Technologies. RTI International, Research Triangle Park, NC. 2012, 82p

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control)
97R (Environmental Studies)
Keywords: Waste management, Technology assessment, Costs.

PB2013100254

Energy Management and Conservation Program. Fiscal Year 2012 Annual Report. National Renewable Energy Lab., Golden, CO. 2013, 52p

Related Categories/Subcategories:

97G (Policies, Regulations & Studies)
43E (Energy)
68A (Air Pollution & Control)
Keywords: Energy management, Energy conservation, Buildings.

N20120015767

Trash to Supply Gas (TtSG) Project Overview: Space Logistics Panel. National Aeronautics and Space Administration, Cocoa Beach, FL. John F. Kennedy Space Center. 2012, 9p
KSC-2012-250

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control)
84A (Astronautics)
Keywords: Space logistics, General overviews, Waste energy utilization.

Key to Database Fields Used

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

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

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



PB2012113592

Full-Depth Reclamation: New Test Procedures and Recommended Updates to Specifications.

Texas Transportation Inst., College Station.

Rehabilitating an old pavement by pulverizing and stabilizing the existing pavement is a process referred to as Full Depth Reclamation (FDR). The stabilized layer becomes either the base or sub-base of the new pavement structure. This process has been used widely for over 20 years in Texas to strengthen and widen structurally inadequate pavement sections. This project developed guidelines on successful FDR practices, developed training materials, and identified areas where improvements to current practices are required. To improve the FDR process, this report includes the following enhancements: Current laboratory testing to select the optimal type and amount of stabilizer takes too long and requires too much material. Continue to run parallel testing with the small sample test protocols proposed in this report. Use the falling weight deflectometer (FWD) during construction to validate that the design assumptions are being met. Implement the proposed bond test to select the optimum prime material and amount needed to effectively bond the base to the surfacing materials. Modify the specifications to avoid working in freezing conditions. Consider implementing the other modifications to specifications proposed in this report.

N20130011661

Trash-to-Gas: Converting Space Trash into Useful Products.

National Aeronautics and Space Administration, Cocoa Beach, FL. John F. Kennedy Space Center.

2013, 9p

KSC-2013-049

Related Categories/Subcategories:

97F (Fuel Conversion Processes)

68C (Solid Wastes Pollution & Control)

84A (Astronautics)

Keywords: Recycling, Space logistics, Waste management.

N20130011696

Aerospace Fuels From Nonpetroleum Raw Materials.

National Aeronautics and Space Administration, Cleveland, OH. NASA John H. Glenn Research Center at Lewis Field.

2013, 20p

NASA/TM-2013-216492

Related Categories/Subcategories:

97K (Fuels)

68C (Solid Wastes Pollution & Control)

81J (Reciprocation & Rotating Combustion Engines)

Keywords: Recycling, Waste management, Metabolic wastes.

ADA558468

Waste-to-Energy Projects at Army Installations.

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

2011, 19p

Related Categories/Subcategories:

97I (Electric Power Production)

97M (Batteries & Components)

74E (Logistics, Military Facilities, & Supplies)

68C (Solid Wastes Pollution & Control)

68D (Water Pollution & Control)

Keywords: Army facilities, Energy conversion, Waste recycling.

ADA558769

Gills Onions Advanced Energy Recovery System: Turning a Waste Liability into a Renewable Resource.

Department of Energy, Washington, DC.

2011, 17p

Related Categories/Subcategories:

57L (Nutrition)

98H (Food Technology)

97M (Batteries & Components)

68C (Solid Wastes Pollution & Control)

Keywords: Energy conversion, Onions, Waste recycling.

Major Subject Categories

Category Codes*/Title	New for December Quantity**
41 Manufacturing Technology.....	43
43 Problem Solving Information for State & Local Governments	438
44 Health Care	154
45 Communication.....	76
46 Physics	183
47 Ocean Sciences & Technology	119
48 Natural Resources & Earth Sciences.....	265
49 Electrotechnology	42
50 Civil Engineering	90
51 Aeronautics & Aerodynamics.....	51
54 Astronomy & Astrophysics	12
55 Atmospheric Sciences.....	58
57 Medicine & Biology.....	460
62 Computers, Control & Information Theory.....	216
63 Detection & Countermeasures	46
68 Environmental Pollution & Control.....	215
70 Administration & Management	416
71 Materials Sciences	86
72 Mathematical Sciences	93
74 Military Sciences.....	338
75 Missile Technology.....	5
76 Navigation, Guidance, & Control.....	8
77 Nuclear Science & Technology.....	63
79 Ordnance	57
81 Combustion, Engines, & Propellants.....	30
82 Photography & Recording Devices	6
84 Space Technology	14
85 Transportation.....	122
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89 Building Industry Technology.....	37
90 Government Inventions for Licensing	0
91 Urban & Regional Technology & Development	460
92 Behavior & Society.....	523
94 Industrial & Mechanical Engineering.....	48
95 Biomedical Technology & Human Factors Engineering	27
96 Business & Economics	112
97 Energy.....	109
98 Agriculture & Food.....	63
99 Chemistry	94

* 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.

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.

ADA558471

Report of the DOD-DOE Workshop on Converting Waste to Energy Using Fuel Cells.

Department of Energy, Washington, DC. Office of Energy Efficiency and Renewable Energy. 2011, 32p

Related Categories/Subcategories:

- 97I (Electric Power Production)
- 97M (Batteries & Components)
- 74E (Logistics, Military Facilities, & Supplies)
- 68C (Solid Wastes Pollution & Control)

Keywords: Energy conversion, Fuel cells, Waste recycling.

DE20111022416

Waste-to-Energy Evaluation: U.S. Virgin Islands. National Renewable Energy Lab., Golden, CO.

2011, 23p
National Renewable Energy Lab., Golden, CO.

Related Categories/Subcategories:

- 97G (Policies, Regulations & Studies)
- 97K (Fuels)

Keywords: Sanitary landfills, Virgin Islands, Life cycle.

ADA558472

Renewable Natural Gas Clean-up Challenges and Applications.

Institute of Gas Technology, Des Plaines, IL. 2011, 25p

Related Categories/Subcategories:

- 97I (Electric Power Production)
- 97M (Batteries & Components)
- 68C (Solid Wastes Pollution & Control)

Keywords: Natural gas, Renewable energy, Biomass.

ADA558767

Waste to Energy Power Production at DOE and DOD Sites.

Department of Energy, Washington, DC. 2011, 24p

Related Categories/Subcategories:

- 97I (Electric Power Production)
- 68C (Solid Wastes Pollution & Control)

Keywords: Electric power production, Biomass, Waste recycling.

ELECTRONICS

DE20131060507

Development of Solar Grade Silicon (SoG-Si) Feedstock by Recycling SoG-Si Wastes. Photovoltaic Supply Chain and Cross-Cutting Technologies: Topic 1: Proof of Concept/Feasibility Assessment. Focus Area 3: PV Manufacturing Processes and Metrologies: Materials Recycling. Missouri Univ. of Science and Technology, Rolla, MO. 2013, 42p

Related Categories/Subcategories:

- 97N (Solar Energy)
- Keywords:** Silicon solar cells, Alternatives, Costs.

PB2012108242

Electronic Waste: Actions Needed to Provide Assurance That Used Federal Electronics Are Disposed of in an Environmentally Responsible Manner.

Government Accountability Office, Washington, DC. 2012, 43p
GAO-12-74

Related Categories/Subcategories:

- 68C (Solid Wastes Pollution & Control)
- 91A (Environmental Management & Planning)
- 43F (Environment)
- 62A (Computer Hardware)
- 49 (Electrotechnology)

Keywords: Electronic waste, Waste disposal, Initiatives.

PB2010113233

Electronic Waste: Considerations for Promoting Environmentally Sound Reuse and Recycling. Government Accountability Office, Washington, DC. 2010, 70p
GAO-10-626

Related Categories/Subcategories:

- 68C (Solid Wastes Pollution & Control)
- 49 (Electrotechnology)
- 71 (Materials Sciences)
- 41 (Manufacturing Technology)
- 94G (Manufacturing Processes & Materials Handling)

Keywords: Electronic equipment, Waste recycling, Pollution control.

PB2011108421

Review of Federal Prison Industries' Electronic-Waste Recycling Program. Department of Justice, Washington, DC. Office of the Inspector General. 2010, 433p

Related Categories/Subcategories:

- 70 (Administration & Management)
- 68C (Solid Wastes Pollution & Control)
- 57U (Public Health & Industrial Medicine)

Keywords: Correctional facilities, Electronic equipment, Waste recycling.



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

Photo: Architect of the Capitol



DE20121042926

Novel Charge Recycling Approach to Low-Power.
Oak Ridge National Lab., TN.

2012, 6p

Related Categories/Subcategories:

62 (Computers, Control & Information Theory)

49 (Electrotechnology)

46 (Physics)

Keywords: Integrated circuits, Energy consumption, Capacitors.

ELECTRIC BATTERIES

PB2013101062

Peer Review of the Draft Report 'Modeling the Cost and Performance of Lithium-Ion Batteries for Electric-Drive Vehicles'. Revised Final Report.

Environmental Protection Agency, Washington, DC. Office of Transportation and Air Quality.

2012, 96p

EPA-420-R-12-021

Related Categories/Subcategories:

85H (Road Transportation)

43G (Transportation)

50A (Highway Engineering)

85D (Transportation Safety)

91B (Transportation & Traffic Planning)

Keywords: Vehicles, Peer review, Recycling.

DE20121044470

Techno-Economic Analysis of PEV Battery Second Use: Repurposed Battery Selling Price and Commercial and Industrial End-User Value.

National Renewable Energy Lab., Golden, CO.

2012, 13p

NREL/CP-5400-53799

Related Categories/Subcategories:

97M (Batteries & Components)

97O (Miscellaneous Energy Conversion & Storage)

85H (Road Transportation)

Keywords: Storage batteries, Energy storage systems, Electric powered vehicles.

DE2010962699

Platinum Group Metal Recycling Technology Development.

BASF Catalysts LLC, Iselin, NJ.

2009, 42p

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control)

71N (Nonferrous Metals & Alloys)

Keywords: Metal recycling, Fuel cell electrodes, Platinum.

ADA565674

Wisdom from the Field: Ins-and-Outs of Developing a Top Recycling Program.

Naval Facilities Engineering Command, San Diego, CA.

2011, 16p

Related Categories/Subcategories:

97M (Batteries & Components)

74 (Military Sciences)

68C (Solid Wastes Pollution & Control)

Keywords: Electric batteries, Recycled materials, Collection.

DE20121046980

Efficient One-Step Electrolytic Recycling of Low-Grade and Post-Consumer Magnesium Scrap.

Boston Univ., MA.

2012, 73p

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control)

71N (Nonferrous Metals & Alloys)

97G (Policies, Regulations & Studies)

Keywords: Electrolytic cells, Magnesium, Recycling.

SPACE/AEROSPACE

PB2010103359

Developing and Implementing an Airport Recycling Program.

Environmental Protection Agency, Washington, DC.

2009, 42p

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control)

89 (Building Industry Technology)

85A (Air Transportation)

Keywords: Waste management, Airports, Recycling.

N20130010918

NASA Ames Water Recycling Technology Development.

National Aeronautics and Space Administration, Moffett Field, CA. Ames Research Center.

2012, 27p

ARC-E-DAA-TN7335

Related Categories/Subcategories:

95E (Life Support Systems)

68D (Water Pollution & Control)

99F (Physical & Theoretical Chemistry)

Keywords: Recycling, Waste water, Life support systems.

N20130011073

Model-Based Diagnosis and Prognosis of a Water Recycling System.

National Aeronautics and Space Administration, Moffett Field, CA. Ames Research Center.

2013, 9p

Related Categories/Subcategories:

95E (Life Support Systems)

68D (Water Pollution & Control)

Keywords: Waste water, Recycling, Prognosis.

N20110008523

Recycling Flight Hardware Components and Systems to Reduce Next Generation Research Costs.

National Aeronautics and Space Administration, Cocoa Beach, FL. John F. Kennedy Space Center.

2011, 13p

KSC-2011-040

Related Categories/Subcategories:

84A (Astronautics)

Keywords: Cost reduction, Recycling, Research.

N20130011292

Mission Benefits Analysis of Logistics Reduction Technologies.

National Aeronautics and Space Administration, Houston, TX. Lyndon B. Johnson Space Center.

2013, 9p

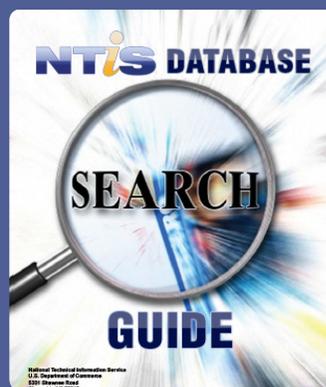
JSC-CN-28324

Related Categories/Subcategories:

95E (Life Support Systems)

84A (Astronautics)

Keywords: Space logistics, Supplying, Recycling.



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PUBLIC SAFETY AND HEALTH

PB2013100083

Coal Mine Safety and Health Report of Investigation Surface of an Underground Coal Mine Fatal Slip/Fall of Person Accident, April 25, 2012, T and B Recycling and Transport, Contractor I.D. A242, Salyersville, Kentucky at McCoy Elkhorn Coal Corp., KC No. 1 Mine, Mousie, Knott County, Kentucky 15-18747.

Mine Safety and Health Administration, Pikeville, KY. District 6.

2012, 16p

CAI-2012-07

Related Categories/Subcategories:

57U (Public Health & Industrial Medicine)

68G (Environmental Health & Safety)

48A (Mineral Industries)

44G (Environmental & Occupational Factors)

Keywords: Accident investigations, Surface mining, Coal mining.

PB2010103899

Health Hazard Evaluation Report: HETA-2008-0055-3098, UNICOR, Elkton, Ohio; Texarkana, Texas; Atwater, California; and Marianna, Florida, December 2009.

Exposure to Hazardous Metals During Electronics Recycling at Four UNICOR Facilities.

National Inst. for Occupational Safety and Health, Washington, DC.

2009, 16p

HETA-2008-0055-3098

Related Categories/Subcategories:

91C (Fire Services, Law Enforcement, & Criminal Justice)

92C (Social Concerns)

70 (Administration & Management)

57U (Public Health & Industrial Medicine)

44 (Health Care)

44D (Health Care Assessment & Quality Assurance)

Keywords: Correctional facilities, Electronics recycling, Hazardous metals.

PB2011103079

Communities: Setting Trends in Waste Prevention and Recycling. Satellite Forum.

WasteWise Satellite Forum, Arlington, VA.

2010, 22p

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control)

91A (Environmental Management & Planning)

43C (Human Resources)

Keywords: Solid waste management, Recycling, Waste prevention.

PB2012114234

Rare Earth Elements: A Review of Production, Processing, Recycling, and Associated Environmental Issues.

National Risk Management Research Lab., Cincinnati, OH. Office of Research and Development.

2012, 135p

EPA/600/R-12/572

Related Categories/Subcategories:

68G (Environmental Health & Safety)

57U (Public Health & Industrial Medicine)

Keywords: Environmental issues, Policymakers, Stakeholders.

METAL AND RARE EARTHS RECYCLING

DE20121039705

Direct Solid-State Conversion of Recyclable Metals and Alloys.

Oak Ridge National Lab., TN. **Welding Inst., Cambridge (England).

2012, 27p

Related Categories/Subcategories:

71N (Nonferrous Metals & Alloys)

68C (Solid Wastes Pollution & Control)

97G (Policies, Regulations & Studies)

Keywords: *Alloys, *Metals, *Recycled materials.

DE20121046980

Efficient One-Step Electrolytic Recycling of Low-Grade and Post-Consumer Magnesium Scrap.

Boston Univ., MA.

2012, 67p

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control)

71N (Nonferrous Metals & Alloys)

97G (Policies, Regulations & Studies)

Keywords: Electrolytic cells, Magnesium, Recycling.

PB2013110702

Changing Patterns in the Use, Recycling, and Material Substitution of Mercury in the United States.

Geological Survey, Reston, VA.

2013, 42p

USGS-SIR-2013-5137

Related Categories/Subcategories:

99D (Basic & Synthetic Chemistry)

97R (Environmental Studies)

68A (Air Pollution & Control)

68C (Solid Wastes Pollution & Control)

91A (Environmental Management & Planning)

Keywords: Mercury, Recycling, United States.

PB2010105715

Recommendations for a Mercury Containing Light Recycling Program in Washington State.

Washington State Dept. of Ecology, Olympia.

2009, 22p

WADOE-09-07-076

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control)

57Y (Toxicology)

43F (Environment)

91A (Environmental Management & Planning)

Keywords: Mercury, Recycling, Washington State.

ADA520881

Rubidium Recycling in a High Intensity Short Duration Pulsed Alkali Laser.

Air Force Inst. of Tech., Wright-Patterson AFB, OH. Dept. of Engineering Physics.

2010, 56 p

AFIT/GAP/ENP/10-M11

Related Categories/Subcategories:

46C (Optics & Lasers)

71N (Nonferrous Metals & Alloys)

Keywords: Laser pumping, Rubidium, Recycled materials.

PB2012101343

Rare Earth Elements: End Use and Recyclability. Geological Survey, Reston, VA.

2011, 22p

USGS SIR-2011-5094

Related Categories/Subcategories:

48A (Mineral Industries)

71N (Nonferrous Metals & Alloys)

96A (Domestic Commerce, Marketing, & Economics)

Keywords: Rare earth elements, Recycling, Catalysts.

NUCLEAR REACTORS

DE20121042575

Code Qualification of Structural Materials for AFCI Advanced Recycling Reactors.

Argonne National Lab., IL. Nuclear Engineering Div.

2012, 211p

ANL-AFCI-244

Related Categories/Subcategories:

77H (Reactor Engineering & Nuclear Power Plants)

71 (Materials Sciences)

Keywords: Power reactors, Alloys, Creep.

DE2010978472

BWR Assembly Optimization for Minor Actinide Recycling.

Cincinnati Univ., OH.

2010, 66p

Related Categories/Subcategories:

77I (Reactor Fuels & Fuel Processing)

77H (Reactor Engineering & Nuclear Power Plants)

Keywords: Nuclear fuel cycle, Boiling water reactor, Nuclear reactors.

AUTOMOTIVE MATERIALS

DE2010970800

Recycling End-of-Life Vehicles of the Future. Final CRADA Report.

Argonne National Lab., IL. Energy Systems Div.

2010, 62p

ANL/ES-C0201801

Related Categories/Subcategories:

85H (Road Transportation)

68C (Solid Wastes Pollution & Control)

94G (Manufacturing Processes & Materials Handling)

97R (Environmental Studies)

Keywords: Energy conservation, Recycling, End-of-life vehicles.

PB2011100259

Emissions of HFC-134a in Auto Dismantling and Recycling.

California Univ., Davis. Dept. of Agricultural Economics. 2010, 128p

Related Categories/Subcategories:

68A (Air Pollution & Control)
68C (Solid Wastes Pollution & Control)
85H (Road Transportation)

Keywords: Air pollution control, Halogenated aliphatic hydrocarbons, Automobiles.

DE20111010492

End-of-Life Vehicle Recycling: State of the Art of Resource Recovery from Shredder Residue.

Department of Energy, Washington, DC.

2011, 185p
ANL/ESD/10-8

Related Categories/Subcategories:

68C (Solid Wastes Pollution & Control)
71 (Materials Sciences)

Keywords: Recycling, Residues, Materials science.

MISCELLANEOUS**ADA536942**

Worldwide Emerging Environmental Issues Affecting the U.S. Military.

Federation of UN Associations, Washington, DC., Millennium Project.

2011, 20p

Related Categories/Subcategories:

74 (Military Sciences)
68G (Environmental Health & Safety)

Keywords: Environmental management, Military forces (United States), Waste recycling.

ADA566191

Reducing Waste from Military Facility Programs... Shed Those Ugly Tons

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

2011, 35p

Related Categories/Subcategories:

50C (Construction Equipment, Materials, & Supplies)
68C (Solid Wastes Pollution & Control)

Keywords: Demolition, Waste recycling, Construction materials.

PB2012102624

Criterion 6, Indicator 33: Recovery or Recycling of Forest Products as a Percentage of Total Forest Products Consumption.

Forest Products Lab., Madison, WI. 2011, 11p
FPL-RN-0321

Related Categories/Subcategories:

48D (Forestry)
48B (Natural Resource Management)

Keywords: Wood recycling, Paper recycling, Production.

PB2013106156

Reduce, Reuse, Recycle: Green Technologies and Practices at Work. Beyond the Numbers Special Studies and Research, Volume 2, Number 7, March 2013.

National Inst. of Standards and Technology (EL), Gaithersburg, MD. Energy and Environment Div. 2013, 10p

Related Categories/Subcategories:

97R (Environmental Studies)
68C (Solid Wastes Pollution & Control)
92C (Social Concerns)
91A (Environmental Management & Planning)
48B (Natural Resource Management)

Keywords: Recycling, Renewable resources, Resource management.

ADA540767

Value of 'Green' to the Army.

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

2011, 93p
ERDC/CERL-SR-11-2

Related Categories/Subcategories:

44G (Environmental & Occupational Factors)
89D (Structural Analyses)
74E (Logistics, Military Facilities, & Supplies)
68G (Environmental Health & Safety)

Keywords: Army facilities, Water conservation, Waste recycling.

WATER**ADA546435**

Water Reuse and Wastewater Recycling at U.S. Army

Installations: Policy Implications. Construction Engineering Research Lab. (Army), Champaign, IL. Engineer Research and Development Center.

2011, 41p
ERDC/CERL-SR-11-7

Related Categories/Subcategories:

68D (Water Pollution & Control)
74 (Military Sciences)

Keywords: Waste water, Recycled materials, Environments.

N20130010918

NASA Ames Water Recycling Technology Development.

National Aeronautics and Space Administration, Moffett Field, CA. Ames Research Center. 2012, 27p

Related Categories/Subcategories:

95E (Life Support Systems)
68D (Water Pollution & Control)
99F (Physical & Theoretical Chemistry)

Keywords: *Recycling, *Waste water, *Life support systems.

FREE DOWNLOAD PB2012101268

Laboratory Evaluation of Characteristics of Recycled Asphalt Pavement in Kansas, Technical Summary.

Kansas Univ., Lawrence. 2011, 2p

Related Categories/Subcategories:

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

Keywords: Asphalt pavements, Recycled materials, Aggregates.

FREE DOWNLOAD N20130014248

QuEST: Qualifying Environmentally Sustainable Technologies, Volume 8.

National Aeronautics and Space Administration, Cocoa Beach, FL. John F. Kennedy Space Center. 2013, 4p
KSC-2013-121

Related Categories/Subcategories:

68 (Environmental Pollution & Control)
91A (Environmental Management & Planning)
97R (Environmental Studies)

Keywords: Pollution control, Environmental cleanup, Recycling.

FREE DOWNLOAD PB2013103222

Use of Reclaimed Asphalt Pavement in Concrete Pavement Slabs, Summary.

Florida Univ., Gainesville. Dept. of Civil and Coastal Engineering. 2012, 1p

Related Categories/Subcategories:

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

Keywords: Asphalt pavements, Recycling, Concrete slabs.

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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.

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N20130011696	97	Aerospace Fuels From Nonpetroleum Raw Materials.
PB2011108671	50	Analysis of Full-Depth Reclamation Trial Sections in Virginia.
DE2010978472	77	BWR Assembly Optimization for Minor Actinide Recycling.
PB2013110702	99	Changing Patterns in the Use, Recycling, and Material Substitution of Mercury in the United States.
PB2013100083	57	Coal Mine Safety and Health Report of Investigation Surface of an Underground Coal Mine Fatal Slip/Fall of Person Accident, April 25, 2012, T and B Recycling and
DE20121042575	77	Code Qualification of Structural Materials for AFCI Advanced Recycling Reactors.
PB2011103855	50	Cold-In-Place Recycling in New York State.
PB2011103079	68	Communities: Setting Trends in Waste Prevention and Recycling. Satellite Forum.
PB2012102624	48	Criterion 6, Indicator 33: Recovery or Recycling of Forest Products as a Percentage of Total Forest Products Consumption.
PB2010103359	68	Developing and Implementing an Airport Recycling Program.
DE20131060507	97	Development of Solar Grade Silicon (SoG-Si) Feedstock by Recycling SoG-Si Wastes. Photovoltaic Supply Chain and Cross-Cutting Technologies: Topic 1: Proof of Concept/Feasibility Assessment. Focus Area 3: PV Manufacturing Processes and Metrologies: Materials Recycling.
DE20121039705	71	Direct Solid-State Conversion of Recyclable Metals and Alloys.
DE20121046980	68	Efficient One-Step Electrolytic Recycling of Low-Grade and Post-Consumer Magnesium Scrap.
DE20121046980	68	Efficient One-Step Electrolytic Recycling of Low-Grade and Post-Consumer Magnesium Scrap.
PB2012108242	68	Electronic Waste: Actions Needed to Provide Assurance That Used Federal Electronics Are Disposed of in an Environmentally Responsible Manner.
PB2010113233	68	Electronic Waste: Considerations for Promoting Environmentally Sound Reuse and Recycling.
PB2011100259	68	Emissions of HFC-134a in Auto Dismantling and Recycling.
DE20111010492	68	End-of-Life Vehicle Recycling: State of the Art of Resource Recovery from Shredder Residue.
PB2013100254	97	Energy Management and Conservation Program. Fiscal Year 2012 Annual Report.
PB2012111191	97	Energy Management and Conservation Program. FY 2011 Annual Report.
PB2011108668	50	Field and Laboratory Investigations for Full Depth Reclamation Projects.
PB2012113592	50	Full-Depth Reclamation: New Test Procedures and Recommended Updates to Specifications.
ADA558769	57	Gills Onions Advanced Energy Recovery System: Turning a Waste Liability into a Renewable Resource.
PB2010103899	91	Health Hazard Evaluation Report: HETA-2008-0055-3098, UNICOR, Elkton, Ohio; Texarkana, Texas; Atwater, California; and Marianna, Florida, December 2009.
ADA581214	50	Laboratory and Field Evaluation of In-Place Asphalt Recycling Technologies for Small Airfield Repair.
N20130011292	95	Mission Benefits Analysis of Logistics Reduction Technologies.
N20130011073	95	Model-Based Diagnosis and Prognosis of a Water Recycling System.
N20130010918	95	NASA Ames Water Recycling Technology Development.
N20130010918	95	NASA Ames Water Recycling Technology Development.
DE20121042926	62	Novel Charge Recycling Approach to Low-Power.
PB2013101062	85	Peer Review of the Draft Report 'Modeling the Cost and Performance of Lithium-Ion Batteries for Electric-Drive Vehicles'. Revised Final Report.
DE2010962699	68	Platinum Group Metal Recycling Technology Development.
PB2012114234	68	Rare Earth Elements: A Review of Production, Processing, Recycling, and Associated Environmental Issues.
PB2012101343	48	Rare Earth Elements: End Use and Recycability.
PB2011113667	50	Reclaimed Asphalt Pavement in Asphalt Mixtures: State of the Practice.
PB2010105715	68	Recommendations for a Mercury Containing Light Recycling Program in Washington State.
PB2013109412	50	Recycle Materials and Byproducts in Highway Applications: Volume 8: Manufactured and Construction Byproducts. A Synthesis of Highway Practice.

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PB2013105729	50	Recycled Concrete Aggregate in Portland Cement Concrete.
PB2012100265	50	Recycling and Reclamation of Asphalt Pavements Using In-Place Methods. National Cooperative Highway Research Program (NCHRP) Synthesis 421. A Synthesis of Highway Practice.
DE2010970800	85	Recycling End-of-Life Vehicles of the Future. Final CRADA Report.
N20110008523	84	Recycling Flight Hardware Components and Systems to Reduce Next Generation Research Costs.
PB2013106156	97	Reduce, Reuse, Recycle: Green Technologies and Practices at Work. Beyond the Numbers Special Studies and Research, Volume 2, Number 7, March 2013.
ADA566191	50	Reducing Waste from Military Facility Programs...Shed Those Ugly Tons
ADA558472	97	Renewable Natural Gas Clean-up Challenges and Applications.
ADA558471	97	Report of the DOD-DOE Workshop on Converting Waste to Energy Using Fuel Cells.
PB2011108421	70	Review of Federal Prison Industries' Electronic-Waste Recycling Program.
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PB2013102778	68	State of Practice for Emerging Waste Conversion Technologies.
DE2009952162	97	Summary Report: Direct Approaches for Recycling Carbon Dioxide into Synthetic Fuel.
DE20121044470	97	Techno-Economic Analysis of PEV Battery Second Use: Repurposed Battery Selling Price and Commercial and Industrial End-User Value.
N20120015767	68	Trash to Supply Gas (TtSG) Project Overview: Space Logistics Panel.
N20130011661	97	Trash-to-Gas: Converting Space Trash into Useful Products.
PB2013103221	50	Use of Reclaimed Asphalt Pavement in Concrete Pavement Slabs.
ADA540767	44	Value of 'Green' to the Army.
ADA558767	97	Waste to Energy Power Production at DOE and DOD Sites.
DE20111022416	97	Waste-to-Energy Evaluation: U.S. Virgin Islands.
ADA558468	97	Waste-to-Energy Projects at Army Installations.
ADA546435	68	Water Reuse and Wastewater Recycling at U.S. Army
ADA565674	97	Wisdom from the Field: Ins-and-Outs of Developing a Top Recycling Program.
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