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Technology Transfer Program

**KENTUCKY  
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September - October  
2011

## **USEFUL WEBSITES AND ELECTRONIC RESOURCES:**

- *Focus: Accelerating Infrastructure Innovations* (FHWA newsletter):  
<http://www.fhwa.dot.gov/publications/focus/index.cfm>
- Pavement Preservation Toolbox:  
<http://www.pavementpreservation.org/toolbox/start.html>
- Transportation Asset Management Today:  
<http://knowledge.fhwa.dot.gov/tam/aashto.nsf/home>
- KTC Technology Transfer Program Library services, online video catalog, and information: <http://www.kyt2.com/library>
- KTC Research Reports: For electronic versions of KTC research reports, see:  
<http://www.ktc.uky.edu/repsearch.html>

## **NEW MATERIALS:**

### **Aviation:**

TE7.H5 no.2214

Aviation 2011

Transportation Research Board; 2011



Kentucky Transportation Center

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Contact the Library to borrow these and other materials: 800-432-0719  
Laura Whayne, Librarian, 859-257-2155, [lwhayne@engr.uky.edu](mailto:lwhayne@engr.uky.edu)  
Victoria Brock, Library Technician, 859-257-8267, [vbrock@engr.uky.edu](mailto:vbrock@engr.uky.edu)

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TL725.A1A4 no.23

Bird Harassment, Repellent, and Deterrent Techniques for Use on and Near Airports

Transportation Research Board; 2011

TE7.H5 no.2206

Public-Sector Aviation: Graduate Research Award Papers, 2009-2010

Transportation Research Board; 2011

TL725.A1A3 no.52

Wayfinding and Signing Guidelines for Airport Terminals and Landside

Transportation Research Board; 2011

**Construction:**

TE7.N25 no.699

Guidelines for the Use of Pavement Warranties on Highway Construction Projects

Transportation Research Board; 2011

**Environment:**

AV-CD427

Retrofitting with Bioretention and a Swale to Treat Bridge Deck Stormwater Run-off

North Carolina DOT; 2010

AV-CD408

Southern Transportation and Air Quality Summit

2003

AV-CD412

Energy, Economic and Global Challenges: Environment in the Balance; A&WMA's 96th Annual Conference and Exhibition

Air and Waste Management Assn.; AIChE; EPA; 2003

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AV-CD426

Air CHIEF

U.S. Environmental Protection Agency; 2003

FHWA-RC-04012

Overview of Federal Air Quality Legislation: As Related to Federally-Assisted  
Highway and Transit Programs

DOT FHWA; 2004

**Freight:**

REF VM23.I55 2011

Inland River Record 2012

Waterways Journal, Inc.; 2011

HE199.A2U5 2010

Unlocking Freight

AASHTO; 2010

**Geotechnology:**

FHWA-CFL-TD-10-004

SNAP (Soil Nail Analysis Program) User's Manual

DOT FHWA; DOT Central Federal Lands Highway Division; 2010

FHWA-CFL-TD-10-002

Hollow Bar Soil Nails: Review of Corrosion Factors and Mitigation Practice

DOT FHWA; DOT Central Federal Lands Highway Division; 2010

FHWA-CFL-TD-10-001

Hollow Bar Soil Nails: Pullout Test Program

DOT FHWA; DOT Central Federal Lands Highway Division; 2010

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TE7.N25 no.697

Design Guidelines for Increasing the Lateral Resistance of Highway-Bridge Pile Foundations by Improving Weak Soils

Transportation Research Board; 2011

TE7.H5 no.2212

Soil Mechanics 2011

Transportation Research Board; 2011

AV-CD414

National Catalog of Subgrade Soil-Water Characteristics Curve (SWCC) Default Inputs and Selected Soil Properties for Use with the M-E PDG

Arizona State University; 2010

TE7.S9 no.418

Developing Production Pile Driving Criteria from Test Pile Data

Transportation Research Board; 2011

AV-CD421

Evaluating Sediment Capture Rates for Different Sediment Basin Designs

North Carolina DOT; 2007

**Intelligent Transportation Systems:**

AV-CD409

Systems Engineering Monographs

U.S. Dept. of Transportation; 2002

AV-CD407

National ITS Architecture: A framework for Integrated Transportation into the 21st Century

U.S. Dept. of Transportation; 1998

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AV-CD413

Intelligent Transportation Systems Awareness  
DOT FHWA; DOT Federal Transit Admin.; 1999

**Materials:**

TE7.N25 no.702

Precision of the Dynamic Modulus and Flow Number Tests Conducted with the  
Asphalt Mixture Performance Tester  
Transportation Research Board; 2011

TA455.G44 G46 2007

GRI Standards: Test Methods, Guides, Practices, and Specifications  
Geosynthetic Research Institute; 2007

AV-CD417

Performance of Weathered Steel Guardrail in North Carolina  
North Carolina DOT; 2011

REF TE12.A87 2011

Asphalt Recycling & Reclaiming Association 2011-2012 Directory  
Asphalt Recycling and Reclaiming Assn.; 2011

TE7.N25 no.696

Performance of Corrugated Pipe Manufactured with Recycled Polyethylene Con-  
tent  
Transportation Research Board; 2011

TE7.H5 no.2209

Asphalt Materials and Mixtures 2011 Vol.3  
Transportation Research Board; 2011

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TE7.S9 no.421

Recycling and Reclamation of Asphalt Pavements Using In-Place Methods  
Transportation Research Board; 2011

TA1001.5.H3 no.6

Feasibility of a Consolidated Security Credential for Persons Who Transport  
Hazardous Materials  
Transportation Research Board; 2011

AV-CD428

Quantifying Antistrip Additives in Asphalt (Binder & Mixes)  
North Carolina DOT; 2005

AV-CD424

Fly Ash Facts for Highway Engineers  
U.S. Environmental Protection Agency; 2003

**Pavements:**

AV-CD416

Development of APA Design Criteria for Surface Mixtures  
North Carolina DOT; 2007

TE278.F33

Facts about Concrete Pavement  
Kentucky Ready Mixed Concrete Assn.; Kentucky Concrete Pavement Assn.

AV-CD420

Performance-Based Analysis of Polymer-Modified Emulsions in Asphalt Sur-  
face Treatments  
North Carolina DOT; 2009

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AV-CD410

Pavement Preservation Toolbox: Strategies for Preventive Maintenance Programs  
DOT FHWA; 2005

**Planning:**

HE2757.L83 2009

State Rail Planning Best Practices

AASHTO; 2009

AV-VD080

Executive Overview of Metropolitan Transportation Planning

DOT FHWA: National Highway Institute; DOT Federal Transit Admin.; 2003

HE192.5.K466 2011

Work Program and Cost Estimate for Project SP 0012 (001) June 16, 2011  
through June 12, 2012. (Planning Work Program).

KTC; 2011

**Research:**

TE7.H5 no.2211

Research and Education 2011

Transportation Research Board; 2011

AV-CD425

Land Use Briefing: Coordinating Land Use and Transportation Resource CD

DOT Federal Aviation Administration; 2008

**Roads:**

TE7.H5 no.2203

Low-Volume Roads Vol. 1

Transportation Research Board; 2011

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TE7.H5 no.2204

Low-Volume Roads Vol.2

Transportation Research Board; 2011

AV-CD411

Access Management DVD Library 2007

Transportation Research Board; 2007

TE7.H5 no.2205

Low-Volume Roads Vol.3

Transportation Research Board; 2011

AV-CD422

Effectiveness of Wildlife Crossing Structures for Black Bears in Madison County,  
North Carolina

North Carolina DOT; 2008

AV-CD423

Implementing the high Risk Rural Roads Program

DOT FHWA; 2010

**Safety:**

REF HE5614.3.K4 K46 2010

Kentucky Traffic Collision Facts 2010 Report

Kentucky Transportation Center; Kentucky State Police; 2011

FHWA-SA-11-10

Road Safety Information Analysis: A Manual for Local Rural Road Owners

DOT FHWA; 2011

TE7.N25 no.705

Evaluation of Safety Strategies at Signalized Intersections

Transportation Research Board; 2011



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TE7.H5 no.2213

Highway Safety Management; Safety Workforce Development; School Transportation

Transportation Research Board; 2011

**Structures:**

AV-CD418

Behavior of Micropiles in Bridge Bent Applications

North Carolina DOT; 2010

TG315.B75 2011

Bridge Preservation Guide: Maintaining State of Good Repair Using Cost Effective Investment Strategies

DOT FHWA; 2011

TE7.N25 no.698

Application of Accelerated Bridge Construction Connections in Moderate-to-High Seismic Regions

Transportation Research Board; 2011

TE7.S9 no.415

Design Fires in Road Tunnels

Transportation Research Board; 2011

AV-CD429

Behavior of Prestressed High Performance Concrete Bridge Girders for US-401 Over the Neuse River in Wake County, NC

North Carolina DOT; 2003

**Traffic Engineering:**

AV-CD419

Traffic Operational Evaluation of Traffic Impact Analysis (TIA) Case Sites

North Carolina DOT; 2010

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AV-CD415

Procedure for Curve Warning Signing, Delineation, and Advisory Speeds for Horizontal Curves

North Carolina DOT; 2010

HE336.C64L5 2011

Smart Congestion Relief: Comprehensive Analysis of Traffic Congestion Costs and Congestion Reduction Benefits

Victoria Transport Policy Institute; 2011

REF HE336.H48H54 2010

HCM2010: Highway Capacity Manual

Transportation Research Board; 2010

**Transit:**

HF5415.5.C87 2011

Customer Driven Service: Your Keys to Providing Exceptional Customer Experiences in Transit (Learner's Guide).

DOT Federal Transit Administration; 2011

HF5415.5.C8 2011

Customer Driven Service: Your Keys to Providing Exceptional Customer Experiences in Transit (Instructor's Guide).

DOT Federal Transit Administration; 2011

HE202.5.S968 no.90

Video Surveillance Uses by Rail Transit Agencies

Transportation Research Board; 2011

HE202.5.S968 no.89

Public Participation Strategies for Transit

Transportation Research Board; 2011

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HE202.5.T73 no.147

Toolkit for Estimating Demand for Rural Intercity Bus Services  
Transportation Research Board; 2011

AV-CD406

Compliance Monitoring Tools  
Transportation Research Board; 2010

**Transportation:**

REF TL151.6.D38 2011

Transportation Energy Data Book  
Oak Ridge National Laboratory; U.S. Dept. of Energy; 2011

HE356.5.L4W5 2010

South Limestone Multimodal Transportation Study  
Wilbur Smith Associates; 2010

TE192.R47 2011

Report to the AASHTO Board of Directors from The AASHTO Standing  
Committee on Research on the FY 2012 Program for the National Cooperative  
Highway Research Program  
AASHTO; 2011

**Travel:**

TE7.S6 no.304

How We Travel: A Sustainable National Program for Travel Data  
Transportation Research Board; 2011

**Water Transportation:**

REF HE627.I55 2011

Inland River Guide

Waterways Journal, Inc.; 2011

AV-CD430

Inland River Guide

Waterways Journal, Inc.; 2011