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Technology Transfer Program

**KENTUCKY  
TRANSPORTATION CENTER**

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July-August  
2011

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

- Roadway Safety Noteworthy Practices Database (FHWA Safety):  
<http://rspcb.safety.fhwa.dot.gov/noteworthy/>
- Roundabout Outreach and Education Toolbox – FHWA Safety):  
<http://safety.fhwa.dot.gov/intersection/roundabouts/roundabouttoolbox/>
- 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:**

TL725.A1A3 no.45

Optimizing the Use of Aircraft Deicing and Anti-Icing Fluids

Transportation Research Board; 2011

TL725.A1A3 no.45S

De/Anti-Icing Optimization (Fact Sheets)

Transportation Research Board; 2011



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)  
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Fax 1-859-257-1815  
[www.kyt2.com](http://www.kyt2.com)

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TL725.A1A3 no.46

Handbook for Analyzing the Costs and Benefits of Alternative Aviation Turbine Engine Fuels at Airports

Transportation Research Board; 2011

TL725.A1A3 no.50

Improved Models for Risk assessment of Runway Safety Areas

Transportation Research Board; 2011

TL725.A1A3 no.47

Guidebook for Developing and Learning Airport Property

Transportation Research Board; 2011

TE7.H5 no. 2177

Aviation 2010

Transportation Research Board; 2010

TL725.A1A4 no.22

Common Airport Pavement Maintenance Practices

Transportation Research Board; 2011

TL725.A1A3 no.48

Impact of Jet Fuel Price Uncertainty on Airport Planning and Development

Transportation Research Board; 2011

TL725.A1A3 no.19A

Resource Guide to Airport Performance Indicators

Transportation Research Board; 2011

TL725.A1A3 no.49

Collaborative Airport Capital Planning Handbook

Transportation Research Board; 2011

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TL725.A1A3 no.44

Guidebook for the Preservation of Public-Use Airports

Transportation Research Board; 2011

TL725.A1A3 no.51

Risk Assessment Method to Support Modification of Airfield Separation Standards

Transportation Research Board; 2011

**Construction:**

TE7.H5 no.2151

Construction 2010 Volume 1

Transportation Research Board; 2010

TE7.H5 no.2152

Construction 2010 Volume 2

Transportation Research Board; 2010

**Design:**

TE7.N25 no.687

Guidelines for Ramp and Interchange Spacing

Transportation Research Board; 2011

TE7.S9 no. 417

Geometric Design Practices for Resurfacing, Restoration, and Rehabilitation

Transportation Research Board; 2011

**Directory:**

REF TE12.A44 2011

AASHTO Reference Book: Member Department Personnel and Committees

AASHTO; 2011

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**Drainage:**

FHWA-NHI-05-013 (Oversize).

Design and Implementation of Erosion and Sediment Control: Instructor Guide  
DOT FHWA: National Highway Institute; 2006

S624.N4N43

Erosion & Sediment Control Basics for Design: Class Agenda and Information  
Nebraska Dept. of Environmental Quality; Nebraska Dept. of Roads

**Environment:**

TE7.H5 no.2158

Environment 2010

Transportation Research Board; 2010

TE7.H5 no.2191

Energy and Global Climate Change 2010

Transportation Research Board; 2010

FHWA-AZ-06-095

Field Study of Particulate Emissions for Major Roadways in the Phoenix Airshed  
Transportation Research Board; 2011

FHWA-HEP-05-028

Transportation Conformity: A Basic Guide for State and Local Officials. Revised  
2005

Transportation Research Board; 2011

**Freight:**

TE7.H5 no.2168

Freight Transportation Modeling, Planning, and Logistics

Transportation Research Board; 2010

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TA1001.5.N3 no.11  
Truck Drayage Productivity Guide  
Transportation Research Board; 2011

TA1001.5.N3 no.10  
Performance Measures for Freight Transportation  
Transportation Research Board; 2011

**General:**

HA32.P35 2007  
SPSS Survival Manual: A Step-by-Step Guide to Data Analysis Using SPSS for  
Windows  
McGraw Hill, Open University Press; 2007

**Geotechnology:**

TE7.H5 no.2186  
Soil Mechanics 2010  
Transportation Research Board; 2010

**Intelligent Transportation Systems:**

FHWA-SA-11-015  
Stop-Controlled Intersection Safety: Through Route Activated Warning Systems  
DOT Federal Highway Administration; 2011

TE7.H5 no.2189  
Intelligent Transportation Systems and Vehicle-Highway Automation 2010  
Transportation Research Board; 2010

**Maintenance:**

TE7.H5 no.2169  
Maintenance Services and Surface Weather  
Transportation Research Board; 2010

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TE7.N25 no. 692

Decision Making for Outsourcing and Privatization of Vehicle and Equipment  
Fleet Maintenance

Transportation Research Board; 2011

TE7.N25 no. 688

Determining Highway Maintenance Costs

Transportation Research Board; 2011

**Management:**

HD66.C43 1994

Building a Dynamic Team: A Practical Guide to Maximizing Team Performance

Richard Chang Associates, Inc.; 1994

TE7.N25 no. 685

Strategies to Attract and Retain a Capable Transportation Workforce

Transportation Research Board; 2011

**Materials:**

TE7.H5 no.2179

Bituminous Materials and mixtures 2010 Volume 1

Transportation Research Board; 2010

TE7.H5 no.2180

Bituminous Materials and Mixtures 2010 Volume 2

Transportation Research Board; 2010

TE7.H5 no.2181

Bituminous Materials and Mixtures 2010 Volume 3

Transportation Research Board; 2010

TE7.H5 no.2164

Concrete Materials 2010

Transportation Research Board; 2010

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TE7.N25 no.673

Manual for Design of Hot Mix Asphalt with Commentary  
Transportation Research Board; 2011

TE7.H5 no.2167

Geomaterials 2010  
Transportation Research Board; 2010

FHWA-HIF-09-004

Report on the Diagnosis, Prognosis, and Mitigation of an Alkali-silica Reaction  
(ASR) in Transportation Structures  
DOT FHWA; 2010

REF TE12.A847 2011

Asphalt Emulsion Manufacturers Association 2011-2012 Membership Directory  
Asphalt Emulsion Manufacturers Assn.; 2011

TE7.N25 no. 691

Mix Design Practices for Warm Mix Asphalt  
Transportation Research Board; 2011

TA1001.5.H3 no.3

Guidebook for Conducting Local Hazardous Materials Commodity Flow Studies  
Transportation Research Board; 2011

TE1001.5.H3 no.4

Emerging Technologies Applicable to Hazardous Materials Transportation Safety  
and Security  
Transportation Research Board; 2011

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**Non-Motorized Transportation:**

TE7.H5 no.2190

Bicycles 2010

Transportation Research Board; 2010

**Pavements:**

TE7.H5 no.2153

Pavement Management 2010 Volume 1

Transportation Research Board; 2010

TE7.H5 no.2154

Pavement Management 2010 Volume 2

Transportation Research Board; 2010

TE7.H5 no.2155

Pavement Management 2010 Volume 3

Transportation Research Board; 2010

MN-RC-2000-04

Best Practices Handbook on Asphalt Pavement Maintenance

Minnesota Local Road Research Board; Minnesota DOT; 2000

**Planning:**

TE7.H5 no.2174

Planning 2010

Transportation Research Board; 2010

HD41.F56 1998

Clockspeed: Winning Industry Control in the Age of Temporary Advantage

Basic Books; 1998



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TE7.N25 no.684

Enhancing Internal Trip Capture Estimation for Mixed-Use Developments  
Transportation Research Board; 2011

TE7.S9 no. 419

Transportation Improvement Program Revision Process  
Transportation Research Board; 2011

**Research:**

Q180.55.I48C65 2009

Competing in the Era of Big Bets: Achieving Scale in Multidisciplinary Research  
Education Advisory Board; Advisory Board Company; 2009

**Roads:**

FHWA-SA-10-007

Mini-Roundabouts: Technical Summary  
DOT FHWA; 2010

FHWA-SA-10-006

Roundabouts: Technical Summary  
DOT FHWA; 2010

FHWA-SA-10-002

Access Management in the Vicinity of Intersections: Technical Summary  
DOT FHWA; 2010

TE7.S6 no.296

Implementing the Results of the Second Strategic Highway Research Program:  
Saving Lives, Reducing Congestion, Improving Quality of Life  
Transportation Research Board; 2009

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**Safety:**

FHWA-SA-11-09

Roadway Departure Safety: A Manual for Local Rural Road Owners  
DOT Federal Highway Administration; 2011

KRR-KTC-10-12

2010 Safety Belt Usage Survey in Kentucky  
Kentucky Transportation Center: University of Kentucky; 2010

TE7.H5 no.2182

Highway Safety: Behavior, Management, and Roundabouts  
Transportation Research Board; 2010

TA1001.5.H3 no.5

Guide for Assessing Community Emergency Response Needs and Capabilities  
for Hazardous Materials Release  
Transportation Research Board; 2011

TE7.H5 no.2194

Vehicle Safety: Truck, Bus, and Motorcycle  
Transportation Research Board; 2010

**Structures:**

TE7.H5 no.2172

Structures 2010  
Transportation Research Board; 2010

TE7.N25 no.683

Protocols for Collecting and using Traffic Data in Bridge Design  
Transportation Research Board; 2011

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TE7.N25 no.679

Design of Concrete Structures Using High-Strength Steel Reinforcement  
Transportation Research Board; 2011

**Traffic Engineering:**

TE7.H5 no.2173

Highway Capacity and Quality of Service 2010  
Transportation Research Board; 2010

HE369.V36 2009

AASHTO Guidelines for Traffic Data Programs  
AASHTO; 2009

TE7.H5 no.2149

Traffic Control Devices, Visibility, and Highway-Rail Grade Crossings  
Transportation Research Board; 2010

TE7.H5 no.2188

Traffic Flow Theory and Characteristics 2010  
Transportation Research Board; 2010

TE7.S6 no.302

Federal Funding of Transportation Improvements in BRAC Cases  
Transportation Research Board; 2011

TE7.H5 no.2192

Traffic Sign Systems

**Transit:**

TE7.H5 no.2145

Transit 2010 Volume 3  
Transportation Research Board; 2010

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HE202.5.T73 no.146

Guidebook for Evaluating Fuel choices for Post-2010 Transit Bus Procurements

Transportation Research Board; 2011

HE202.5.S968 no.88

Strollers, Carts, and Other Large Items on Buses and Trains

Transportation Research Board; 2011

FTA-KY-26-2009.1 Vol.1

Deploying Structured Public Involvement in Transit Agency Planning

Kentucky Transportation Center: University of Kentucky; 2011

FTA-KY-26-2009.1 Vol.2

Guidebook for the Use of Audience Response System (Keypads) to Incorporate Structured Public Involvement into Transit Planning

Kentucky Transportation Center: University of Kentucky; 2011

HE202.5S968 no.87

Practices in the Development and Deployment of Downtown Circulators

Transportation Research Board; 2011

HE202.5.T73 no.84-9

e-Transit: Electronic Business Strategies for Public Transportation. Volume 9:

Transit Enterprise Architecture and Planning Framework

Transportation Research Board; 2011

**Transportation:**

TE7.H5 no.2197

Network Modeling 2010 Volume 2

Transportation Research Board; 2010

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TE7.N25 no.690

Guidebook for Successful Communication, Cooperation, and Coordination  
Strategies Between Transportation Agencies and Tribal Communities

Transportation Research Board; 2011

HE196.5.R35 2011

Transportation Governance and Finance: A 50-state Review of state Legisla-  
tures and Departments of Transportation

AASHTO; National Conference of State Legislatures; 2011

TE7.H5 no.2183

Information Systems, Geographic Information Systems, and Advanced Com-  
puting 2010

Transportation Research Board; 2010

REF TE205.A43 2011

Standard Specifications for Transportation Materials and Methods of Sampling  
and Testing 2011

AASHTO; 2011

REF TE205.A44 2011

AASHTO Provisional Standards 2011

AASHTO; 2011

TE7.H5 no.2185

Human Performance, Simulation, and User Information Research

Transportation Research Board; 2010

HE151.W66 2011

Women's Issues in Transportation: Summary of the 4th International Confer-  
ence. Volume 2, Technical Papers

Transportation Research Board; 2011

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TE7.H5 no.2193

Developing Countries

Transportation Research Board; 2010

TE7.N25 no. 695

Guide for Implementing a Geospatially Enabled Enterprise-wide Information Management System for Transportation Agency Real Estate Offices

Transportation Research Board; 2011

TE7.N25 no. 689

Costs of Alternative Revenue-Generation Systems

Transportation Research Board; 2011

**Travel:**

TE7.H5 no.2176

Travel Forecasting 2010 Volume 2

Transportation Research Board; 2010

TE7.H5 no.2175

Travel Forecasting 2010 Volume 1

Transportation Research Board; 2010

TE7.H5 no.2156

Travel Behavior 2010 Volume 1

Transportation Research Board; 2010

TE7.H5 no.2157

Travel Behavior 2010 Volume 2

Transportation Research Board; 2010

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**Vegetation:**

TE178.G85 2011

Guidelines for Vegetation Management

AASHTO; 2011

FHWA-WFL-TD-11-001

Current and Innovative Solutions to Roadside Revegetation Using Native  
Plants: A Domestic Scan Report

DOT FHWA; 2011