

**Electronic Resources in Transportation:
There are Lots of Signs on the
Information Superhighway but
Where is the Information I
Really Need*? *without hitting a lot of roadblocks
and detours**

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Penn State

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Overview

- **Electronic Resources**
 - Databases
 - Search Engines
 - Gateways
- **Tools to help you locate information and resources**
 - RSS
 - Blogs, etc.

Fee Databases

- **Compendex**
- **NTIS**
- **TRIS*** (also available for free through the NTL)
- **ITRD**
- **Web of Science**

Database Services

- **Advanced Searching**
- **Full text**
- **Ordering options**
- **Alerts**
- **RSS**
- **Search assistance**

Compendex



[Abstract](#) - [Detailed](#) - [Full-text](#)

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Record 5 from Compendex for: (((transportation infrastructure) WN KY) AND ((bridge) WN All fields)), 1884-20

Check record to add to Selected Records

5. **Accession number:** 075010971078

Title: A decision support system for concrete bridge deck maintenance

Authors: [Yehia, Sherif](#); [Abudayyeh, Osama](#); [Fazal, Imran](#); [Randolph, Dennis](#)

Author affiliation: Civil and Construction Engineering, Western Michigan University, Kalamazoo, MI 49008-5316, United States

Serial title: Advances in Engineering Software

Abbreviated serial title: Adv Eng Software

Volume: v 39

Issue: n 3

Issue date: March 2008

Publication year: 2008

Pages: p 202-210

Language: English

ISSN: [0965-9978](#)

CODEN: [AESODT](#)

Document type: Journal article (JA)

Publisher: Elsevier Ltd, Oxford, OX5 1GB, United Kingdom

Abstract: Innovations in the area of **transportation infrastructure** maintenance and rehabilitation are keys to the health and wellness of this valuable national asset. A major component of maintenance and rehabilitation is the ability to accurately assess the condition of the **transportation infrastructure** and to provide appropriate mitigation strategies. This can be accomplished in part by using decision support systems that provide accurate and detailed information about repair materials and methods. In this paper, an extensive literature review,

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Free Databases

- **TRIS** (ntl.bts.gov)
- **Google Scholar*** (scholar.google.com)
- **DoE Information Bridge**
(<http://www.osti.gov/bridge/>)
- **Civil Engineering Database**
(cedb.asce.org)
- **TLCat** (ntl.bts.gov)
- **Specialized Google Meta Search Engines***



Transportation Meta Search

Google Custom Search

Creator



Name: WSDOT Library
Member since: Dec 19, 2006



Search engine details

Quality Transportation-Related Websites for Transportation Professionals

To search only state Departments of Transportation, try:
<http://www.google.com/coop/cse?cx=006511338351663161139%3Ac>

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<http://www.google.com/coop/cse?cx=012995479145342077058%3Aip>

Contributors [\[Volunteer to contribute\]](#)

 Jim Olive...	 Anonymous	 Stephen C...	 Anonymous	 Anonymous
 Anonymous	 Claes Eri...	 Anonymous	 Jim Byerl...	 Maggie Sa...

searches 971 sites, including: <https://www.nysdot.gov/>, <http://www.himshid.state.nm.us/>, <http://www.panynj.com/>, <http://www.state.nj.us/transportation/>, <http://www.nh.gov/dot/>

Keywords: transportation, roads, highways, rail, aviation, transit, "public transportation", bridges

Last updated: Apr 18, 2008
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Full text Resources

- **Transportation Statistics**
(www.bts.gov)
- **Bibliographies** (ntl.bts.gov,
dotlibrary.dot.gov)
- **Federal laws** (<http://thomas.loc.gov/>)
- **Fee based services**

For additional resources see

www.libraries.psu.edu/eng/

[webinar.html](#)

Web “Layers”

Surface
Web

Links are found by search engine spiders “traditional web”

Deep
Web

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Private Web

General Search Engines

- www.google.com (1)
- www.yahoo.com (2)
- <http://www.msn.com/> (4)
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(indicates December 2007 ranking in use statistics from
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bridge "nondestructive evaluation"

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[CITATION] **Nondestructive evaluation** for **bridge** management in the next century - [Get it! @ Penn State](#)
SB Chase, G Washer - *Public Roads*, 1997
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[Vibration Testing for Nondestructive Evaluation of Bridges. II: Results](#) - [Get it! @ Penn State](#) - [all 10 versions »](#)
MM Samman, M Biswas - *Journal of Structural Engineering*, 1994 - [pubs.asce.org](#)
... Vibration Testing for **Nondestructive Evaluation** of Bridges. ... used to detect the presence of simulated cracks in the girders of a laboratory-size **bridge** as well ...
[Cited by 34](#) - [Related Articles](#) - [Cached](#) - [Web Search](#) - [BL Direct](#)

[Lamb wave reflection for the quick nondestructive evaluation of large composite laminates](#) - [all 5 versions »](#)
N Guo, P Cawley - *Materials Evaluation*, 1994 - [osti.gov](#)
For a journal article, please see the Resource Relation field. Title, Lamb wave reflection for the quick **nondestructive evaluation** of large composite laminates. ...
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[Integration of Bridge Management Systems and Nondestructive Evaluations](#) - [Get it! @ Penn State](#) - [all 5 versions »](#)
G Hearn, H Shim - *Journal of Infrastructure Systems*, 1998 - [pubs.asce.org](#)
... Document type: Journal Paper. Abstract: A basis for the direct use of data from **nondestructive evaluation** methods in **bridge** management systems is presented. ...
[Cited by 12](#) - [Related Articles](#) - [Cached](#) - [Web Search](#) - [BL Direct](#)

[BOOK] **Nondestructive Evaluation: A Tool in Design, Manufacturing, and Service** - [all 2 versions »](#)
DE Bray, RK Stanley - 1997 - [books.google.com](#)
... Bray, Don E. **Nondestructive evaluation** : a tool in design, manufacturing, and service
Revised Edition / Don E. Bray and Roderic K. Stanley. p. cm. ...



Metasearch Engines

- www.dogpile.com
- www.clusty.com
- www.mamma.com
- www.surfwax.com
- www.kartoo.com

Deep Web Searching

- www.completeplanet.com
- turbo10.com
- directory.google.com
- www.scirus.com

For more information see -

<http://websearch.about.com/od/invisibleweb/a/invisibleweb.htm>

Sample Page - Scirus

1-10 of 239 hits for **keyword:nondestructive AND keyword:evaluation (keyword:bridge*)**

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Filter search results by

Content sources

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File types





- HTML (214)
- PDF (59)
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Refine your search

- nondestructive
- evaluation
- concrete bridge
- bridge decks
- highway bridges
- civil engineering
- concrete structures
- ultrasonic
- non-destructive testing
- eddy current
- bridge structures

[more ▸](#)

- 1. [NDE Center Home \[9K\]](#)**
Aug 2007
The Federal Highway Administration (FHWA) Nondestructive Evaluation (NDE) was established by the Federal Highway Administration in 1998. The objective of the FHWA NDE Center is to improve the state of the practice for highway bridge inspection.
[<http://www.tfsrc.gov/hnr20/nde/home.htm>]
[more hits from](#) [<http://www.tfsrc.gov>]
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- 2. [Application of digital infrared thermography for nondestructive evaluation of composite bridge components](#)**
Vasudevan, Archana. , Jan 2004
Thesis (M.S.)--West Virginia University, 2004. Title from document title page. Document formatted into pages; contains ix, 217 p. : ill. (some col.), col. maps. Includes abstract. Includes bibliographical references (p. 213-217).
Full text thesis available via NDLTD (OCLC) 
[similar results](#)
- 3. [A comparison of nondestructive evaluation methods for bridge deck assessment](#)**
Scott, M. / Rezaizadeh, A. / Delahaza, A. / Santos, C.G. / Moore, M. / Graybeal, B. / Washer, G. , *NDT and E International*, 36 (4), p.245-255, Jun 2003
Concrete bridge deck deterioration is a significant problem that must be addressed to preserve highway infrastructure investments in bridges around the world. Reducing the cost of bridge deck maintenance is critical to government and...
Published journal article available from  **ScienceDirect** 
[similar results](#)
- 4. [Nondestructive Evaluation of Double Bevel T-Joint by Tandem Array Ultrasonic Transducer](#)**
H. Shirahata / C. Miki / R. Yamaguchi , *AIP Conference Proceedings*, Apr 2003
doi:10.1063/1.1570264
The double bevel T-joint is one of the most fundamental joints of steel bridges. Double bevel T-joint can be seen at beam-column connection of

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Gateways – a short list

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- **NTL** (ntl.bts.gov)
- **Minnesota Dept. of Transportation**
(<http://www.dot.state.mn.us/library/>)
- **Thomas** (thomas.loc.gov)
- **Science.gov** (www.science.gov)



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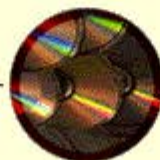
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NEW TOOLS YOU CAN USE



Transportation Meta Search

Google Custom Search Search

Creator



Name: WSDOT Library
Member since: Dec 19, 2006

Contributors [\[Volunteer to contribute\]](#)

 Jim Olive...	 Anonymous	 Stephen C...	 Anonymous	 Anonymous
 Anonymous	 Claes Eri...	 Anonymous	 Jim Byerl...	 Maggie Sa...

Search engine details

Quality Transportation-Related Websites for Transportation Professionals

To search only state Departments of Transportation, try:
<http://www.google.com/coop/cse?cx=006511338351663161139%3Ac>

To search public transit agencies, try:
<http://www.google.com/coop/cse?cx=012995479145342077058%3Aip>

searches 971 sites, including: <https://www.nysdot.gov/>, <http://www.nmshtd.state.nm.us/>, <http://www.panynj.com/>, <http://www.state.nj.us/transportation/>, <http://www.nh.gov/dot/>

Keywords: transportation, roads, highways, rail, aviation, transit, "public transportation", bridges

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Updated 11:00 AM EDT, April 21, 2008

Welcome to the National Transportation Library!

- Bureau of Transportation Statistics
- Intelligent Transportation Systems
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NTL Integrated Search

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JUST OUT: 38 early Eno Transportation Foundation publications now available in NTL Digital repository. [View Eno Documents >>](#)



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 Author: Weng, Qihao. Publication: Boca Raton : CRC Press, 2008
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 Author: Liang, Robert Y. Publication: Akron, OH : Ohio Dept. of Transportation ; Springfield, VA : Available
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2. Try it out

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for example, Climate Science from Climate Scientists

Specify some keywords that describe the content or subject of your search engine. These keywords are used to tune your search engine results. [+ Learn more](#)

Search engine keywords:
for example, climate "global warming" "greenhouse gases"

Search engine language:

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- The entire web, but emphasize sites I select.
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Select some sites



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<http://ntl.bts.gov/link.html>, <http://www.worldcat.org/>,
<http://books.google.com/bkshp?hl=en&tab=wp>

Keywords: "transportation infrastructure"

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bridge deck evaluation

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[advtech012](#)

Transportation Technology **Evaluation** Center (TTEC) The Germans also are stressing membrane systems to reduce **bridge-deck** deterioration problems. ...

ntl.bts.gov/DOCS/advtech012.html - 156k - [Cached](#)

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binder and fine, very hard aggregate—to a **bridge deck** section. on I-65 in October 1996. ... **evaluation** of the Superpave mixture design and analysis system. ...

ntl.bts.gov/lib/6000/6200/6242/smart.pdf

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This project developed and tested an automated **bridge deck** anti- and deicing formulation of proposed changes in the **bridge evaluation** procedures. ...

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bridge deck damage assessment. (Figure 1.7) **evaluation** once parts have been made, (3) to form health and damage assessment systems once ...

ntl.bts.gov/lib/10000/10600/10640/fibop.pdf

[Intermodal Surface Transportation Efficiency Act of 1991](#)

In any case where a highway **bridge deck** being replaced or rehabilitated with The study under subsection (a) shall include an **evaluation** of the ...

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<input type="button" value="Delete"/>		<input type="button" value="New"/>



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Transportation Infrastructure:

14 Feb 2008 by joeswanson
 For **Pavements**, damage reduced when ground is frozen. Conversely, when **pavements** are thawing and wet, significantly more damage results. Bridges do not benefit from frozen conditions: . In fact, some bridges may be more susceptible to ...
[Joe Swanson - http://joeswanson.wordpress.com](http://joeswanson.wordpress.com)
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Minnesota finally moves forward on transportation challenges

26 Feb 2008 by charlieq
 Hats off to the Minnesota legislature for taking a big step forward for the state's critical **transportation infrastructure** this week. And hats off to transportation supporters – from the Chamber of Commerce to advocacy groups to the ...
[Growth & Justice Blog - http://growthandjustice.typepad.com/my_weblog/](http://growthandjustice.typepad.com/my_weblog/)

Senate Second Hearing On Surface Transportation Commission Report

6 Feb 2008 by WIMS
 Witnesses testifying at the second hearing included: Mary Peters, Secretary, US Department of Transportation; the Secretary for the Kansas Department of Transportation; the Director of **Transportation Infrastructure**, US Chamber of ...
[eNewsUSA - http://enewsusa.blogspot.com/](http://enewsusa.blogspot.com/)

Pounding the Pavement (Deborah's Post for 2/27)

26 Feb 2008 by deborah
 I want to talk this week about sidewalks, and the sidewalk in front of your house as a

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by ITS Library



The rate of repeat DWI offenses has been cut by over 40% in the U.S. and Canada by the use of ignition interlock devices. These are small, hand held breathalyzers that work in conjunction with an aftermarket ignition cut-off switch which allows a driver to start their car only if they pass their on-the-spot blood alcohol content test. 37 states now offer ignition interlocks as an alternative to license suspension for many DWI offenders.

The success of this program has prompted the Automotive Coalition for Traffic Safety and the National Highway Traffic Safety Administration to explore the feasibility of alcohol detection systems for all cars. Such a system would need to be, according to the newly launched [Driver Alcohol Detection System for Safety](#) website, "far less intrusive – they must not impede sober drivers from starting their vehicles. They would need to be capable of rapidly and accurately determining and measuring alcohol in the blood."

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