Finding Transportation Information: A Tutorial

Presented by:

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Sponsored by the Midwest Transportation Knowledge Network
Objective:

To provide effective methods for finding & evaluating transportation-related information on the Internet
Before we start please remember

- Anyone can post to the Internet. Confirm the authority or expertise of individual or group that created the web site. Compare what you find with reliable print resources available in your local or transportation library.

- Check the currency of the web site you’ve located.

- Look for contact information for what you’ve located.
Site that provides capability of entering terms or other criteria to search an index of Web sites

(Examples are Google http://www.google.com, all the web http://alltheweb.com)
Web Directory

A computer file consisting of electronic entries called records, each containing a uniform description of a specific document or bibliographic item, usually retrievable by author, title, subject heading (descriptor) or keyword(s). Some bibliographic databases are general in scope and coverage, others provide access to the literature of a specific discipline or group of disciplines. An increasing number provide the full-text of at least a portion of the sources indexed. Most bibliographic databases are proprietary, available by licensing agreement from vendors, or directly from the indexing and abstracting services that create them (Examples are Transportation Research Information Services (TRIS) http://ntl.bts.gov/tris and TRB’s Research-in-
Tip #1

Use a search engine when you are looking for something very specific.
Tip #2

Use a directory when what you are looking for isn’t a unique or specific item, when you want to know what kinds of materials are available on a particular topic or when you know there will be a huge amount of information on your topic and you want a pre-selection list of good quality pages.
Tip #3

Use a bibliographic database to find peer-reviewed papers, articles, publications, proceedings, when you need accurate, verifiable and reliable information.
Boolean Logic

Way to combine terms using “operators” such and “AND,” “OR”, “AND NOT” and sometimes “NEAR”. AND requires all terms appear in the record. OR retrieves records with either term. AND NOT excludes terms. Parentheses may be used to sequence operations and group words. Always enclose terms joined by OR with parentheses.
Case Sensitive

Capital letters (upper case) retrieve only upper case.
Most search tools are not case sensitive or only respond to initial capitals, as in proper names.

It is always safe to key all lower case (no capitals), because lower case will always retrieve upper case.
Field Searching

Ability to limit a search by requiring word or phrase to appear in a specific field of documents (e.g., title, url, link)
Phrase Search

More than one KEYWORD, searched exactly as keyed (all terms required to be in documents, in the order keyed)

Enclosing keywords in quotations “” forms a phrase in AltaVista, and some other search tools. Some times a phrase is called a “character string.”
Proximity (near)

Ability to search for keywords that have a specified distance between each other, and are in any order.

NEAR retrieves records with keywords within 10 words of each other.

(Only search engine capable of this is AltaVista).
Stemming

In keyword searching, word endings are automatically removed (lines becomes line).

Searches are performed on the stem + common endings (line or lines retrieves line, lines, line’s lines’, lining, lined).
Truncation

Addition of a symbol at the beginning or end of a word stem in a keywords search to retrieve variants containing the root

Truncation is particularly useful in retrieving both the singular and the plural forms of a word in the same search.

Example sign* retrieves records containing sign, signs, signal, signals, significantly.

Often the end truncation symbol is the * (asterisk), but other symbols ?, $, etc may also be used. (AltaVista can truncate.)
Wild Card

The search software used in some bibliographic databases allows a special character to be inserted in the middle of a search term in keyword searching to retrieve words containing any character or no character in the position useful in retrieving irregular plurals and variant spellings of a word.
Once you’ve decided what tool to use, read the instructions provided at the site carefully!

Read through the “Help”, “Search Tips” section, “How-to,” etc. any instructions that have been included so you can learn how this search tool works.
Questions to ask yourself when using a search engine:

- Is the default AND or OR?
- Is there a default that limits the number of citations?
- Is it case sensitive?
- Does it truncate?
- Can it search by proximity?
- Can it search phrases?
- Can specific formats be specified?
Click on Advanced Search
The advanced search option can provide more consistency and control.

You can use the first search box, With all the words http://www.google.com/
use the boolean operator AND pavement and preservation, click on Google Search

Results 1 - 10 of about 950,000
Google Advanced Search - Microsoft Internet Explorer

Find results with all of the words: pavement AND preservation
10 results

Language: any language
File Format: any format
Date: anytime
Occurrences: anywhere in the page
Domain: e.g., google.com, .org
SafeSearch: Filter using SafeSearch

Google Advanced Search Tips | Hurricane Resources - About Google
Web Results 1 - 10 of about 950,000 for pavement AND preservation. (0.12 seconds)

Tip: Save time by hitting the return key instead of clicking on "search"

Scholarly articles for pavement AND preservation
- Fuzzy Set-Based and Performance-Oriented Pavement - by Wang - 4 citations
- Integrating pavement preservation into a local agency - by Smith - 1 citation
- Research frontiers in pavement preservation - by Larson - 2 citations

Pavement Library - Pavements - FHWA
Pavement Preservation Checklist #5 Microsurfacing Application, 2003 ...
www.fhwa.dot.gov/pavement/pub_listing.cfm?areas=Preservation - 13k - Sep 26, 2005 - Cached - Similar pages

Pavement Library - Pavements - FHWA
Pavement Preservation Checklist #1 Crack Seal Application, 2002, FHWA-IF-02-005.
Pavement Preservation Checklist #2 Chip Seal Application, 2002 ...
www.fhwa.dot.gov/pavement/pub_listing.cfm?sort=FHWA_PubNo&areas=Preservation - 13k - Sep 27, 2005 - Cached - Similar pages
You can limit this search

Choose the 2nd box With the exact phrase

Results 1 - 10 of about 43,800
Tip: Save time by hitting the return key instead of clicking on "search"

NCPP - National Center for Pavement Preservation

Pavement preservation is a cost-effective set of practices that extend ... The National Center for Pavement Preservation (NCPP) seeks to advance and promote ...

www.pavementpreservation.org/ - 24k - Sep 26, 2005 - Cached - Similar pages

- National Center for Pavement Preservation
National Center for Pavement Preservation Photo Gallery ... Pavement Preservation
Partnerships. Pavement Preservation Expert Task Group ...

www.pavementpreservation.org/album/ - 8k - Sep 26, 2005 - Cached - Similar pages

Foundation for Pavement Preservation
Foundation for Pavement Preservation ... Foundation for Pavement Preservation - 8613 Cross Park Dr., Austin, TX 78754 Toll Free: (866) 862-4587 Email: ...
You can narrow again by doing a field search by arrowing down to Occurrences, click on pull down menu, and select in the title of the page. Click on Google Search

Results 1 - 10 of about 421
NCPP - National Center for Pavement Preservation
Pavement preservation is a cost-effective set of practices that extend pavement life and improve safety and motorist satisfaction while saving public tax ...
www.pavementpreservation.org/ - 24k - Sep 26, 2005 - Cached - Similar pages

Foundation for Pavement Preservation
Providing resources to advance knowledge for managing and preserving pavements.
Last Update: February 2, Home · About · News · Materials · Supporters ...
www.fp2.org/ - 7k - Cached - Similar pages
Or you can limit by the type of file you want by arrowing up to File Format. Click on the pull down menu and select Microsoft PowerPoint .ppt

Click again on Google Search.
Results 1 - 2 of about 2
Choosing the Right Pavement Preservation Tools
File Format: Microsoft Powerpoint - View as HTML
Pavement Preservation Tools: Right Treatment, Right Road, Right Time. APWA 8/25/2003
10:00 AM. Charlie Atherton. Koch Pavement Solutions ...
co-asphalt.com/advantage/resources/documents/ PAVEMENTPREVISION-APWA825200310AMATHERON.PPT - Supplemental Result - Similar pages

PAVEMENT PRESERVATION
File Format: Microsoft Powerpoint - View as HTML
Accelerated Construction Technology Transfer (ACTT). MDQI. 01/28/04. Definition. ACTT is a strategic process, which uses various innovative techniques, ...
wasto-x.org/files/ACTT20PPP.PPT - Supplemental Result - Similar pages
You can use Google’s power to search another web site:

Enter **pavement preservation** in the 2nd box
With the exact phrase

Arrow down to Domain, click on the pull down menu and enter **www.fhwa.dot.gov**

Click on Google Search

Results 1 - 10 of about 186.
Tip: Save time by hitting the return key instead of clicking on "search"

**[PDF] Pavement Preservation: Toolbox Resources**
File Format: PDF/Adobe Acrobat - View as HTML
The new "Pavement Preservation Toolbox," assembled by the Federal Highway Administration and Foundation for Pavement Preservation, contains ...
www.fhwa.dot.gov/construction/fs02010.pdf - Similar pages

**[PDF] Pavement Preservation Fact Sheet**
File Format: PDF/Adobe Acrobat
pavement preservation—cuts the need for costly, time-consuming rehabilitation ...
Lead States team on pavement preservation reaches highway agencies through ...
www.fhwa.dot.gov/infrastructure/asstmgmt/pavepres.pdf - Similar pages

**Memo: Pavement Preservation Definitions - Preservation - FHWA**
Pavement preservation represents a proactive approach in maintaining our ...
This is the true goal of pavement preservation, a goal in which the FHWA, ...
www.fhwa.dot.gov/pavement/preservation/091205.cfm - 19k - Sep 26, 2005 - Cached - Similar pages

Sponsored Links:
- Preserve Pavement Chicago
  Patch, Fill Cracks, Sealcoat, Paint
  Request a Free Pavement Analysis.
  www.mtschicago.com/
- Simple Asphalt Repairs
  Do-it-Yourself asphalt repair Kits
  Easy-to-Install, Durable repairs
  stores.ebay.com/PTI-PavementRepair
You can search for images. At the Google search screen, click on Images.

Enter **pavement preservation**. Click on Google Search.

Results 1 - 20 or about 469.
You can also limit by excluding words (without the words), date, and language.

The Transportation Research Information Services (TRIS) Database

- World’s largest and most comprehensive bibliographic resource on transportation information

- Produced and maintained by the Transportation Research Board at the National Academy of Sciences

- Sponsored by the State Departments of Transportation, the various administrations in the U.S. Department of Transportation, and other sponsors of TRB’s technical activities

- Contains over 535,000 records of published and ongoing research on all modes and disciplines of transportation
TRIS Online is available through the National Transportation Library’s web page at: http://ntl.bts.gov/tris

- Largest and most comprehensive source of information on published transportation research on the Web.

- Joint project between the Bureau of Transportation Statistics (BTS) and the Transportation Research Board

- Research in Progress files and the international material in the International Transportation Research Documentation (ITRD) Database that are part of TRIS are not available as part of TRIS Online
Remember the questions we asked before we began searching? Again we need to think about these questions in formulating a search strategy for TRIS.

Is the default AND or OR? The default is AND.

Is there a default that limits the number of citations shown?

TRIS Online defaults in the search period to the last 5 years.

Is it case sensitive?
TRIS is not case sensitive.

Does it truncate? Yes, it automatically searches variations of a key word (stemming). Stemming can be turned off by the use of the `<WORD>` operator or by quotes. Wild Card searches use the * asterisk.

Can it search by proximity? `<NEAR>` can be used between keywords.

Can it search phrases? Quotes should be placed around keywords to phrase search or to stop a keyword from stemming.

Can specific formats be specified? No

TRIS Online automatically searches variations of keywords, so if you don’t want a truncated search you need to include “” around the word or phrase you are searching.
EX. The keywords **traffic sign** will return citations that include the keywords sign, signs, signal, signals, & even significantly.

Display: 1-10 of 1667
Criteria: TRAFFIC SIGN
Search Period: 2000 - present
Sort: PUBDATE
Display: 1-10 of 1667

BASKET Add Add All Documents

0 item(s) are in the BASKET [Max 5000].
Select the items below by checking the boxes, then select a function from the BASKET CONTROL panel above.

☐ Select/Deselect all displayed items
But “traffic sign” or “traffic signs” will return citations that are about traffic signs.

Some citations may still deal with signals but signs will also be addressed.

Display 1-10 of 423
TRIS Online contains 512,510 records of published transportation research and has been updated through 09/01/05 Details...

Search For: "traffic sign" OR "traffic signs"

Search In:
- Article or Book Title
- Abstract
- Keyword
- Organization or Corporate Authors
- Journal Title or Conference Title

Search Period:
- All
- Last year
- Last 5 years
- Last 10 years

Search by Year:
- From:
- To:

Search By:
- Accession Number
Or you can search traffic sign or traffic signs and retrieve the same results.
TRIS Online contains 512,510 records of published transportation research and has been updated through 09/01/03. Details...

Search For:  traffic <word> sign OR traffic <word> signs

Search In:
- Article or Book Title
- Abstract
- Keyword
- Organization or Corporate Authors
- Journal Title or Conference Title

Search Period:
- All
- Last year
- Last 5 years
- Last 10 years

Search by Year:  From  To

Search By:  Accession Number
Need to find out what other DOT’s are doing related to traffic signs? Add the keywords State Departments of Transportation

Display 1 – 10 of 67
TRIS Online contains 512,510 records of published transportation research and has been updated through 09/01/05 Details...

Search For: <word> signs AND state departments of transportation

Search In:
- Article or Book Title
- Abstract
- Keyword
- Authors
- Organization or Corporate Authors
- Journal Title or Conference Title

Search Period:
- All
- Last year
- Last 5 years
- Last 10 years

Search by Year:
- From [ ] To [ ]
- clear

Search By:
- Accession Number
U.S. Department of Transportation
Bureau of Transportation Statistics

National Transportation Library

TRIS Online v2.7
Search Results List

Criteria: TRAFFIC SIGN OR TRAFFIC SIGNS AND STATE DEPARTMENTS OF TRANSPORTATION
Search Period: 2000 - present
Sort: PUBDATE
Display: 1-10 of 67

BASKET Add Add All Documents

0 item(s) are in the BASKET [Max 5000].
Select the items below by checking the boxes, then select a function from the BASKET CONTROL panel above.
Be sure to examine the keyword or words you are using. For example, if you are looking for pavement markings, use the search strategy **road marking** or **road markings** to comprehensively explore this topic and the results will include road marking materials, road marking tapes, road markings.

Pavement marking(s) is not an indexing term of the TRIS database. Look at the bottom of a TRIS record, and check the index terms to find the terms that TRIS indexers use to define the literature.

Display 1 - 10 of 317
TRIS Online v2.7
Search Entry

Accessibility About Search Questions Help

TRIS Online contains 512,510 records of published transportation research and has been updated through 09/01/05 Details...

Search For: road marking OR road markings

Search In:
- Article or Book Title
- Abstract
- Keyword
- Organization or Corporate Authors
- Journal Title or Conference Title

Search Period:
- All
- Last year
- Last 5 years
- Last 10 years

Search by Year:
- From [ ] To [ ]

Search By:
- Accession Number

Reset
Tips
Criteria: ROAD MARKING OR ROAD MARKINGS
Search Period: 2000 - present
Sort: PUBDATE
Display: 1-10 of 317

Select the items below by checking the boxes, then select a function from the BASKET CONTROL panel above.
Criteria: ROAD MARKING OR ROAD MARKINGS  Search Period: 2000 - present

ID: 01000825
Title: The Relative Effects of Road Markings on Cycle Stability
Author(s): Cleland, B S; Walton, D; Thomas, J A
Language: English
Journal Title: Safety Science
Volume: 43  Issue: 2
Publication Date: 02/00/2005
Pagination: pp 75-89
ISSN: 0925-7535
Features: FIGS: 5  TABS: 6  REFS: 15
Publisher/Corporate Author(s):
Elsevier
Abstract:

This article describes how participants completed 1600 trials over 20 objects on an instrumented racing cycle. The recordings of lateral acceleration and handle bar angle were combined in order to combine to form a single measure of instability and compared to recordings of normal riding over smooth asphalt. New techniques used to control the learning effects were used within an experimental procedure that controlled the angle and speed of the cyclist. Sixteen of the objects including rough ground, a round utility access cover, oversized thermoplastic lines (7-mm thick), and an audio-tactile line shows significant effects on the stability of cycles. Traditional chlorinated rubber lines, one thermoplastic line, and a waterborne line shows no significant impact on cycling. Relative assessment of the effect of the objects on cycle stability is reported and the validity and reliability of the methods are discussed in the article.

Index Terms:

Angle of incidence, Handlebars, Lane changing, Lane lines, Lateral acceleration, Marking materials, Motorcycle accidents, Motorcycles, Pavements, Rubber, Speed, Stability (Mechanics)

Order Document
You can narrow your search by just searching for **Pavement Marking or Pavement Markings** in the title field. Leave the check on article or book title, and remove the default checks on abstract and keyword.

**Display: 1-10 of 81**

You get a smaller, more targeted search, but remember you will have missed some information.
TRIS Online contains 512,510 records of published transportation research and has been updated through 09/01/05 Details...

Search For: pavement marking OR pavement markings

Search In:
- Article or Book Title
- Abstract
- Keyword
- Authors
- Organization or Corporate Authors
- Journal Title or Conference Title

Search Period:
- All
- Last year
- Last 5 years
- Last 10 years

Search by Year:
From
To

Search By:
- Accession Number
Criteria: PAVEMENT MARKING OR PAVEMENT MARKINGS
Search Period: 2000 - present
Sort: PUBDATE
Display: 1-10 of 81

0 item(s) are in the BASKET [Max 5000].
Select the items below by checking the boxes, then select a function from the BASKET CONTROL panel above.

Select/Deselct all displayed items
If you are trying to locate an author, 

Ex. **Shad Sargand**, 
remove checks from the defaults—article or 
book title, abstract, and keyword, and 
remove the last 5 years default from the 
Search Period, and enter **sargand, s*** 
Use the asterisk or wild card capability after 
the author’s 1st initial. 

This will locate all forms of entry that may be 
used, whether 1st initial is given, 1st and 2nd 
initial, or first name. 

Display: 1-10 of 23
U.S. Department of Transportation

Bureau of Transportation Statistics

National Transportation Library

TRIS Online v2.7
Search Results List

Accessibility  About  Search  Questions  Help

Criteria: SARGAND S*
Search Period: 2000 - present
Sort: PUBDATE
Display: 1-10 of 23

BASKET  Add  Add All Documents

0 item(s) are in the BASKET [Max 5000].
Select the items below by checking the boxes, then select a function from the BASKET CONTROL panel above.

Select/Deselct all displayed items

http://nationalacademies.org/trb/
More Techniques

When searching TRIS start your search by being specific, then if you get 0 hits or only a few, you can broaden your search terms. For example, searching *bridge inspection technique* results in 0, with the default set at Last 5 years for the search period.

Broaden the search period to All, and the results are 5 citations. Searching the phrase *pavement rutting* returns 65 citations, *pavement and rutting* returns 358.
Criteria: BRIDGE INSPECTION TECHNIQUE
Search Period: ALL
Sort: PUBDATE
Display: 1-5 of 5

Select the items below by checking the boxes, then select a function from the BASKET CONTROL panel above.

Select/Deselect all displayed items
Also you can use the * to search plurals other than (s). For example, if you’re looking for women engineers, search wom*n engineer* or female engineer*.

ACRONYMS should be searched by using the acronym as well as the complete name—NAFTA or North American Free Trade Agreement, PCC or portland cement concrete.

TRIS doesn’t ignore punctuation, so sometimes you may have difficulty finding long titles. The truncation isn’t always consistent. Please consult your local transportation librarian if you have questions.
TRB’s Research-in-Progress Database

If you’d like to know what State DOT research projects are in progress, or if you want to avoid duplicating research that has already been done, select TRB’s Research-In-Progress Database.

http://rip.trb.org

RiP contains about 6,600 records of current or recently completed transportation research projects. Each month about 100 new RiP projects are added to the database and another 150 RiP records are updated. Most of the RiP records are projects funded by Federal and State Departments of Transportation. University transportation research is also included. In 1998, the Transportation Association of Canada began supplying records from its Canadian Surface Transportation Research Database of RiP.
RiP Web site allows users to:

- Search the entire Research in Progress
- Browse project records by subject
- Use a look up directory for individuals and organizations
- Subscribe to receive e-mail notification of new RiP records in specific subject areas
- Submit current research projects (Non-DOT person can submit with an online form.)
Select the Advanced Search option in the upper left-hand corner of the screen. Enter **Bridge Management**. The database automatically assumes adjacent words are a phrase.

Click Submit Query.

Number of Matches: 31.

You can broaden the search by typing **bridge* and management**, to make sure no project is missed.
RESEARCH in PROGRESS

Search Projects

- To retrieve a record or records in the database, enter a word or phrase in the "Search Term" box.
- For a wild-card search, use an asterisk (*) after a partial word.
- For a boolean search, use OR, AND, or AND NOT between words or phrases.
- For the fields Sponsor/Performing Organization, and Project Manager/Principal Investigator, click "SELECT" to view a list of values for you to choose from.
- For additional search tips, view the search help page.

Submit Query  Clear

Search Field  Search Term
Keywords (Title, Abstract, or Index Terms)  bridge management
Synthesis of Information Related to Highway Problems, Topic 37-05

Bridge Inspection Practices

Abstract: The Federal Highway Administration (FHWA) has required state Departments of Transportation (DOTs) perform visual inspections of highway bridges since the late 1960s. In 2002, FHWA made preventive maintenance for highway bridges eligible for funding if state DOTs use systematic processes such as a bridge management systems to select activities and candidates for replacement and rehabilitation. Recent changes to the National Bridge Inspection Standards (NBIS) federal regulations require state DOT's
RESEARCH in PROGRESS

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- For the fields Sponsor/Performing Organization, and Project Manager/Principal Investigator, click "SELECT" to view a list of values for you to choose from.
- For additional search tips, view the search help page.

Search Field
Keywords (Title, Abstract, or Index Terms)

Search Term
bridge* management
Subject Category: All Categories and Keywords (Title or Abstract): “BRIDGE* MANAGEMENT”

Number of matches: 31

Synthesis of Information Related to Highway Problems. Topic 37-05
Bridge Inspection Practices
Abstract: The Federal Highway Administration (FHWA) has required state Departments of Transportation (DOTs) perform visual inspections of highway bridges since the late 1960s. In 2002, FHWA made preventive maintenance for highway bridges eligible for funding if state DOTs use systematic processes such as a bridge management systems to select activities and candidates for replacement and rehabilitation. Recent changes to the National Bridge Inspection Standards (NBIS) federal regulations require state DOT's
To find out if a specific agency has a bridge management project, arrow down to Sponsoring/Performing Organization. At the pull down window click Select. In the search box type Kansas Department of Transportation. Click the search box. Click on the link. Then Click Submit Query. Result is *Corrosion of Bridge Components Caused by Utility Cathodic Protection.*
Search Field

Keywords (Title, Abstract, or Index Terms)

Search Term

bridge management

Contract or Grant number

Sponsoring/Performing Organization

- Select one or more organizations -

Select

Project Manager/Principal Investigator

- Select one or more persons -

Select

Source Organization

Select

Subject Category

All Categories
Organization List

Starting With: department of transportation  Search

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Organization List

Starting With: [ ] Search

ABCDEFGHIJKLMNOPQRSTUVWXYZ

Kansas Department of Transportation view
Submit Query
Clear

Search Field
Keywords (Title, Abstract, or Index Terms) | Search Term
bridge management

Contract or Grant number

Sponsoring/Performing Organization
Kansas Department of Transportation

Project Manager/Principal Investigator

Source Organization

Subject Category
All Categories
CORROSION OF BRIDGE COMPONENTS CAUSED BY UTILITY CATHODIC PROTECTION

Abstract: The condition in which stray currents contribute to the corrosion of highway structures, the tests to determine if these conditions exist, and the methods recommended to alleviate either the conditions or the damage caused by stray current corrosion are investigated. The research concludes that: (1) all construction close to cathodically protected utilities should be reported so that stray current interference can be assessed, (2) any utility pipeline found uncovered should be reported so it can be inspected for corrosion damage and (3) no underground highway structure should be located within the area of influence of a cathodic protection groundbed. Recommendations are made based upon findings of this research.

Status: Completed
TRB Accession Number: 731065
Contract/Grant Number: RE-0112-01
Total Dollars: 33000
Source Organization: Kansas Department of Transportation
Date Added: 7/10/2002
Index Terms: Corrosion resistance, Cathodic protection, Components, Bridge management systems, Structural design, Structural deterioration and
RiP uses the * asterisk for truncation. Ex: life cycle cost* and bridge*.

Number of matches: 14.
RESEARCH in PROGRESS

Search Projects

- To retrieve a record or records in the database, enter a word or phrase in the "Search Term" box.
- For a wild-card search, use an asterisk (*) after a partial word.
- For a boolean search, use OR, AND, or AND NOT between words or phrases.
- For the fields Sponsor/Performing Organization, and Project Manager/Principal Investigator, click "SELECT" to view a list of values for you to choose from.
- For additional search tips, view the search help page.

Submit Query  Clear

DOT users (authorized users)

Search Field

Keywords (Title, Abstract, or Index Terms)

Search Term

life cycle cost* AND bridge*
Stainless Steel Reinforcing Bars in Bridge Decks

Abstract: The main objective of this project is to extend the service life of bridge decks. This study will determine if using stainless steel reinforcement in place of epoxy-coated reinforcement in bridge decks will reduce corrosion so to extend the service life of the bridge deck long enough to make them cost effective. This will be done by doing yearly checks on fiber optic chloride sensors, permeability, and half-cell potentials along with visual inspections on the bridge deck to determine the extent of corrosion of the rebar. Although the stainless steel reinforcing bars are more expensive than epoxy coated
Acknowledgments


Glossary of Internet & Web Jargon, University of California, Berkeley, Teaching Library Internet Workshops. 12 Sept. 2003 <http://www.lib.berkeley.edu/TeachingLib/Guides/Internet/Glossary.html>

