



Definitions of ROI Measures

Note: This pertains to page 3 of the [Report of Study Findings](#). All figures are intentionally conservative.

Time Saved / Reference

- Number of requests – based on library statistics from 2012.
- In-depth reference – more than 15 minutes to answer (ranging from > 15 minutes to several weeks); Quick reference – 15 minutes or less to answer; Literature searches vary depending on the request
- Hours saved – based on amount of time masters degreed librarians spent on reference questions, and what they estimate it would take a layperson to do, without their expertise, partner connections, databases, and advanced searching knowledge
- Customer average salary + benefits – calculated after receiving all salaries + benefits from HR. Librarians determined who the bulk of our customers are, and those are the figures we used. The combination of salary + benefits was used at the recommendation of Bruce Kingma, Economist at Syracuse University, and economic advisor to the LibValue project.

Limitation: Salaries were not weighted.

Time Saved / Document Delivery

- Loans from MnDOT Library and Articles Downloaded/Copied are based on library statistics from 2012.
- One hour saved per request is a conservative figure.
- Customer average salary + benefits – calculated after receiving all salaries + benefits from HR. Librarians determined who the bulk of our customers are, and those are the figures we used. The combination of salary + benefits was used at the recommendation of Bruce Kingma, Economist at Syracuse University, and economic advisor to the LibValue project.

Limitation: Salaries were not weighted.

Dollars Saved / Interlibrary Loans

- Journal Titles Borrowed and Book Titles Borrowed are based on library statistics from 2012.
- Average cost to purchase a journal article is based on figures obtained from Todd Fenton, Manager, InfoNOW, University of Minnesota.
- Average cost to purchase a book title is based on the average cost of books that MnDOT Library purchases (from actual budget tracking) + a processing fee based on what the Minitex (University of MN) contract cataloging unit charges for processing a book.

Dollars Saved / Journal Routing

- MnDOT Library routed 10,887 journal issues to 780 employee routees in 2012.
- The value factor of three articles per routee adding value in one year was a figure recommended to us by MnDOT economist John Wilson.
- The \$55 average cost figure to purchase from a vendor is based on figures obtained from Todd Fenton, Manager, InfoNOW, University of Minnesota.

Please contact Sheila Hatchell, Library Director, with any questions or comments:
Sheila.Hatchell@state.mn.us or 651-366-3733



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Minnesota Department of Transportation

Vision

Minnesota's multimodal transportation system maximizes the health of people, the environment and our economy.

Mission

Plan, build, operate and maintain a safe, accessible, efficient and reliable multimodal transportation system that connects people to destinations and markets throughout the state, regionally and around the world.

Core Values

Safety, Excellence, Service, Integrity, Accountability, Diversity and Inclusion

Sample of Topics Researched by MnDOT Library Staff

MnDOT Library exists to support MnDOT's mission, vision, and values by providing research assistance to all offices and meeting the information needs of every employee. Our research topics cover a wide variety of questions, from multimodal transportation, safety, finance, environmental sustainability, to diversity, leadership and others.

The following topics are a small sample of customer requests over the last few years for research assistance. The research topics relate to MnDOT functions, programs and research projects.

- Do rumble strips really improve safety?
- How do we make quieter rumble strips?



Rumble strips

- I am looking for information on pedestrian survivability rates when struck by a vehicle based on vehicle speeds (i.e., chance of fatality when struck by vehicle traveling 20, 25, 30....50 mph).
- How do other state DOTs and metro planning organizations organize their pedestrian plans?
- I need to know about pedestrian safety including statistics and how to improve safety.



Pedestrians in crosswalk

- How can we safely accommodate bicycle transportation?



Bicyclists in marked bike lane

- Safety treatments for at-grade railway crossings



Railroad crossing sign

- How do we improve work zone safety?



Work zone

- I need information about the safety and cost benefit impacts of cable median barriers.
Video at <http://youtu.be/JKoLkzDWUCM>



Cable median barrier

- I need information on the safety aspects of extra tall concrete median barriers.



Roadway with tall concrete median barrier

- What do we need to know about ADA compliance?



ADA compliant curb cut

- What impact does ramp metering have on safety and congestion?



Ramp meter

- We need to know about the roundabouts and how they impact safety and congestion.
Video - <http://youtu.be/FxuNIhJG4MM>



Roundabout

- I need information on elevated bicycle roundabouts.
<http://en.wikipedia.org/wiki/Hovenring>



Hovenring elevated bicycle and pedestrian roundabout - Photo from web

- What are the impacts of HOV (high occupancy vehicle) lanes?



High occupancy vehicle lane

- We need information on the impacts of high occupancy toll lanes. (In Minnesota, this later became known as MnPASS.)



MnPASS lane

- What is the economic value of barge traffic to Minnesota?



Barge on Mississippi River

- What are other states doing to develop their “adopt-a-highway” like programs?



Adopt a highway sign

- Automated Deicing of Bridges; safety, effectiveness, cost.



Spray head in bridge deck

- We need information on weigh in motion implementation.
Video - <http://youtu.be/eLlyKiiEfaY>



Weigh in motion device on road

- We need to learn about the traffic impacts and cost/benefit of managed lanes/smart lanes.
Video - <http://youtu.be/2E7G7YHd-Bk>



Smart lanes

- We need to know about light rail (LRT) systems; cost, effectiveness, safety, planning, etc.



Light rail car

- What are the safety and traffic impacts of changeable/variable message signs?



Variable message sign

- What are the cost/benefits of super single truck tires?



Truck with super single tires

- How can we do a better job of routing snow plows?



Snow plow

- What are the best practices for “complete streets?”
Video - <http://youtu.be/eybnVOMEX6w>



Mixed use street design

- Can we use ground penetrating radar to measure variations in overlay thickness?



Ground penetrating radar - Photo from web

- What are the impacts of bus only shoulders on traffic congestion and safety?



Bus running on road shoulder

- We need information on commuter rail programs at other states.



Northstar commuter train

- I need to know more about travel patterns and behavior of visually impaired travelers. (ADA)



Man using ADA compliant crosswalk

- We need information on the design and construction of noise walls.
- We need information on the environmental impact of treated lumber used in Noise walls on the environment.



Noise wall

- I need to know about using plants as snow fences; living snow fences.



Drifts created by living snow fence

- Plant toxins of poison ivy and Grecian Foxglove carried through the smoke of prescribed burns



Prescribed burn

- We need to know about ombudsman programs at other organizations.



- What do we need to consider when formulating a policy on the use of social media in the workplace?



Facebook logo - Photo from web



YouTube logo - Photo from web

Photo credit: All photos courtesy of David Gonzalez, MnDOT Photographer, unless otherwise noted.

MnDOT Library Survey 2013

MnDOT Library is surveying our customers about our resources and services to learn what we are doing well and where we need to improve. Your feedback will be included as part of a larger evaluation of the library.

The survey has been designed so that all answers are anonymous. A report will be available when the project is completed.

We appreciate your taking 5-10 minutes out of your busy day to assist us.

For technical assistance with the survey, please contact Marilee Tuite at Marilee.Tuite@state.mn.us or 651-366-3797.

For questions about the survey, please contact Sheila Hatchell, MnDOT Library Director, at Sheila.Hatchell@state.mn.us or 651-366-3733.

MnDOT Library Resources

1. What information resources do you need and/or use in your work? (Check all that apply.)

- ☐ Data
- ☐ Statistics
- ☐ Handbooks and manuals
- ☐ Standards and specifications (Ex: AASHTO, ASTM, MnDOT, etc.)
- ☐ Magazines/Newspapers
- ☐ MnDOT publications
- ☐ Other state or federal DOT publications
- ☐ Research reports
- ☐ Trade catalogs
- ☐ Exam Certification/Test Prep (Ex: PMBOK, PE, etc.)
- ☐ Historical materials
- ☐ Other (please specify):

2. Where do you usually find these sources? (Check all that apply.)

- ☐ My own collection
- ☐ Co-worker's collection or collection in our unit or section
- ☐ Internet
- ☐ MnDOT Library
- ☐ University of Minnesota Library
- ☐ Public library
- ☐ Another state agency library
- ☐ Other (please specify):

MnDOT Library Survey 2013

3. How do you usually learn of new publications in your field? (Check all that apply.)

- ☐ Internet
- ☐ Colleagues
- ☐ Professional organizations (listservs, magazines, email ads)
- ☐ MnDOT Library email notifications of New Library Materials
- ☐ Other (please specify):

*4. How have you used MnDOT Library since the library remodel in 2010? (Check all that apply. *Response is required.)

- ☐ Visited MnDOT Library
- ☐ Called MnDOT Library
- ☐ Accessed MnDOT Library's online resources
- ☐ Submitted a request via e-mail
- ☐ Submitted a request via MnDOT Library's website
- ☐ I have not used MnDOT Library at all since the library remodel in 2010.

NOTE: If someone checks any of boxes 1-5, then survey logic would take them to question #6, which would be renumbered as #5 in the online interface. If someone checks the 6th box ("I have not used..."), then survey logic would take them to question #5.

***5. If you have not used MnDOT Library since the library remodel in 2010, why not?**
(*Response is required.)

- ☐ No need to use the library
- ☐ Did not know the library existed
- ☐ Did not think the library could offer the type of information I needed
- ☐ Did not think the library could offer the type of service I needed
- ☐ Inconvenient location
- ☐ Other (please specify):

After answering this question, survey logic would take the person to the final three questions in the Demographics section.

MnDOT Library Services

6. What are your main reasons for using MnDOT Library? (Check all that apply.)

- ☐ To do research
- ☐ To ask for a librarian's help with research
- ☐ To check out library materials (Ex: books, technical reports, Kindles)
- ☐ To have access to magazines and newspapers
- ☐ Quiet place for reading, writing and breaks
- ☐ Wi-Fi access
- ☐ To use a library computer
- ☐ Small group meetings
- ☐ Events (Ex: book discussions, open house)
- ☐ Free book exchange
- ☐ Preparation space for job interview candidates
- ☐ Other (please specify):

MnDOT Library Survey 2013

7. For each of the library's services below, click on the appropriate button:

1 = I have used this service

2 = I did not know this service existed

3 = I have not needed this service

4 = Other reason for not having used this service

	1	2	3	4
Phone or e-mail the library with a question	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Phone or e-mail the library to get an item from the library	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visit the library in person with questions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visit the library to find/borrow resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recommend resources to add to library collection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Borrow materials from other libraries (Interlibrary loan/ILL)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Magazine routing service	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Notifications and research updates in areas of interest (Ex: DIALOG or Google Alerts)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you checked **4=Other reason for not having used this service** for any of these online services, please provide a reason for not using these services.

MnDOT Library Survey 2013

8. The following *online* services are available to you via MnDOT Library's website. For each service below, click on the appropriate button:

1 = I have used this online service

2 = I did not know this service existed online

3 = I have not needed this online service

4 = Other reason for not having used this online service

	1	2	3	4
Used the "Ask a Librarian" feature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Request materials online	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Library catalog	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Magazines and journals lists, including full-text access	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MnDOT Library <i>New Library Materials</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Online databases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Links to other resources, forms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you checked **4=Other reason for not having used this online service** for any of these online services, please provide a reason for not using these services.

MnDOT Library Survey 2013

User Ratings

9. Please indicate the response that reflects your experience since the library remodel in 2010:

	Always	Frequently	Sometimes	Rarely	Never
When I am using the library or its services, I can easily find what I'm looking for.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The MnDOT Library usually provides the information I need.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. Indicate your agreement with the following statements: Information provided by MnDOT Library...

	Strongly Agree	Agree	Somewhat Agree	Somewhat Disagree	Disagree	Strongly Disagree	Don't Know
Helps me in my work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saves me time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Helps me strengthen my skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is information that I probably would not have found elsewhere	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Informs decisions that decreased projects' costs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contributes to transportation projects' effectiveness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contributes to transportation system safety	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contributes to increased mobility in the transportation system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Facilitates innovation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contributes to MnDOT's transparency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contributes to MnDOT's use of research-based industry practices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

MnDOT Library Survey 2013

11. If MnDOT Library services were *not* available, how convenient would it be to access the following information and services *from other sources*?

	Very convenient	Convenient	Somewhat convenient	Somewhat inconvenient	Inconvenient	Very inconvenient	Don't know
Information resources (Ex: Reading and checking out materials, finding information through databases)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Staff services (Ex: staff to research your questions, find information, deliver documents, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. In general, how would you rate the help you have received from MnDOT Library staff since the library remodel in 2010?

- ☐ Very good
- ☐ Good
- ☐ Fair
- ☐ Poor

Comment (optional):

13. Indicate your agreement with the following statements:

	Strongly Agree	Agree	Somewhat Agree	Somewhat Disagree	Disagree	Strongly Disagree
Service provided by MnDOT Library exceeds my expectations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would refer colleagues to MnDOT Library to find resources or research assistance for their work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. What do you value most about MnDOT Library? Please comment.

MnDOT Library Survey 2013

15. In what area would you like MnDOT Library to improve? Please comment.



Demographics

Please provide the following information to help us better analyze and make use of the survey responses. All responses are anonymous.

16. In which Division do you work?

- ☐ Commissioner's Office (includes Commissioner and Deputy Commissioner/Chief Engineer, Transportation Ombudsman, Communications, Customer Relations, Audit, Government Affairs, Chief Financial Officer, Chief Counsel, Chief Risk Officer)
- ☐ Policy, Safety & Strategic Initiatives
- ☐ Employee & Corporate Services
- ☐ Modal Planning & Program Management
- ☐ Engineering Services
- ☐ State Aid
- ☐ Operations

17. In what physical office or district do you work? (Note: Metro District and Districts 1-8 include all locations and all truck stations.)

- ☐ Central Office (includes Aeronautics, Arden Hills Training Center, Bridge Office, Ft. Snelling, Materials and Road Research, MnROAD, St. Croix River Crossing Office, Traffic Safety & Technology)
- ☐ Metro District (includes RTMC, Electronic Communications)
- ☐ District 1
- ☐ District 2
- ☐ District 3
- ☐ District 4
- ☐ District 6
- ☐ District 7
- ☐ District 8

18. How long have you worked for MnDOT?

- ☐ Less than 2 years
- ☐ 2-9 years
- ☐ 10-19 years
- ☐ 20 or more years

Thank you

Thank you for participating in our survey. If you would like further information about MnDOT Library or its services, please visit our website at www.mndot.gov/library.



What MnDOT Employees Read: Books and articles requested via interlibrary loan

Journals

Categories include: Business / Management / Human Resources; Engineering / Transportation; Environment / Ecology; Planning; Other miscellaneous topics. Number of titles listed in parenthesis.

Business / Management / Human Resources (16)

Cornell hospitality quarterly
Equality, diversity and inclusion: an international journal
Human Resource management journal
International journal of business anthropology
International review of retail, distribution and consumer research
Journal of Management
Journal of organizational behavior
Management communication quarterly
Negotiation journal (2)
Nonprofit and voluntary sector quarterly
Risk
Strategic HR review (2)
Thunderbird international business review
Work study: a journal of productivity science

Engineering / Transportation (41)

Accident analysis and prevention
Applied acoustics
Cement & concrete composites (2)
Cement and concrete research
Civil engineering ASCE
Civil engineering news
Concrete science and engineering
Engineering journal
Geotechnical and geological engineering
Geotechnique

Geotechnical testing journal (3)
IEEE sensors journal
IEEE Transactions on Reliability
The Journal of the Acoustical Society of America
Journal of applied physics
Journal of geodesy
Journal of geophysics and engineering
Journal of hydrology
Journal of the Soil Mechanics and Foundations Division (4)
Journal of sound and vibration
Journal of the Surveying and Mapping Division
Journal of testing and evaluation
Journal of transport economics and policy
Journal of transportation engineering
Magazine of concrete research (2)
Materials performance
Materials research and standards
New civil engineer: NCE magazine of the Institution of Civil Engineers
Post-tensioning journal
Public works
Road materials and pavement design: an international journal
Safety science
Surveying and Mapping: quarterly publication of American Congress on Surveying and Mapping
Waste management & research: Journal of the International Solid Wastes and Public Cleaning Assoc.

Environment / Ecology (56)

Aquatic botany
Aquatic ecology
Biological conservation
Botanical gazette
Bulletin of environmental contamination and toxicology
Canadian geotechnical journal
Canadian journal of plant science
Canadian surveyor
Chemosphere
Community ecology
Conservation in practice: a publication of the Society for Conservation Biology

Earth surface processes and landforms: the journal of the British Geomorphological Research Group
Ecology (2)
Ecosystems
Environmental geology
Environment international
Environmental science & technology
Environmental Toxicology and Chemistry (3)
Forest science
Geomorphology
The Harvard environmental law review
Invasive plant science and management (3)
Journal of the American Water Resources association
Journal of Environmental Management
Journal of forestry
The journal of wildlife management
Landscape ecology (2)
Marine Technology Society Journal (2)
Natural areas journal: a quarterly publication of the Natural Areas Association
Oecologia
Plant ecology
Plant protection quarterly
Quaternary Research (2)
Quaternary Science Reviews
Toxicology and environmental chemistry
Transactions of the American Fisheries Society
Urban ecosystems
Water quality research journal of Canada
Water research
Water technology
Waterways Journal
Weed science (2)
Weed technology
Wetlands: the journal of the society of the Wetlands Scientists (2)
Water resources bulletin (2)

Planning (3)

The annals of regional science
International planning studies
Land use policy

Other Miscellaneous Topics (21)

American Psychologist
Community college journal of research and practice
JAMA
Journal of applied psychology (3)
Journal of applied social psychology
Journal of archaeological science
Journal of chemical education
Journal of health and human services administration
The journal of research in crime and delinquency
Journal of sleep research
Medical reference services quarterly
Minnesota law review
Nature
Official Journal of the European Communities Legislation
Peabody journal of education
Social indicators research
Theory of probability and its applications
Tribology international
Utilities policy: strategy, performance, regulation

Books

Categories include: Engineering; Management / Leadership / Human resources; Conference Proceedings. Number of titles listed in parenthesis.

Engineering/Transportation: Conference Proceedings (50)

Adhesion between polymers and concrete: bonding, protection, repair. Proceedings.

Advanced airfield pavements: proceedings of the 27th international Air Transportation Conference, Chicago, IL.

Alternative sanctions for repeat DWI offenders: IN Association for the Advancement of Automotive Medicine Conference Proceedings.

APTA rail transit conference proceedings.

Archaeological informatics: pushing the envelope CAA 2001: Computer applications and quantitative methods in archaeology, proceedings of the 29th conference, Gotland, Sweden.

Bond in concrete: from research to standards: proceedings of the 3rd international Symposium held at the Budapest University of Technology and Economics, Budapest, Hungary.

Clay fills: proceedings of the conference held at the Institution of Civil Engineers.

Cold regions reengineering 2009: cold regions impact on research, design, and construction: proceedings of the 14 Conference on Cold Regions Engineering, Duluth, MN.

Computing archaeology for understanding the past: CAA 2000: computer applications and quantitative methods in archaeology: proceedings of the 28th conference, Ljubljana, Slovenia.

Concrete 2000: economic and durable construction through excellence: proceedings of the international conference held at the University of Dundee, Scotland UK.

Concrete Communication Conference 2001: proceedings of the eleventh annual BCA/Concrete Society conference on higher education and the concrete industry: UMIST, Manchester, England.

Construction Research congress 2010: innovation for reshaping construction practice: proceedings of the 2010 Construction Research Congress, Banff, Alberta, Canada.

Deep Foundations Institute 33rd annual & 11th International Conference on Deep Foundations.

Digital discovery: exploring new frontiers in human heritage: CAA 2006: computing applications and quantitative methods in archaeology: proceedings of the 34th conference, Fargo, ND.

Durability of concrete: second international conference, Montreal, 1991.

The effect of vehicle impoundment and immobilization on driving offenses of suspended and repeat DWI drivers: In Association for the Advancement of

Automotive Medicine Conference Proceedings.

Enter the past: the E-way into the four dimensions of cultural heritage. (2)

Computer applications and quantitative methods in archaeology: proceedings of the 31st Conference, Vienna, Austria.

Fifth international RILEM (International Union of Laboratories and Experts in Construction Materials, Systems, and Structures) Conference on Cracking in Pavements: mitigation, risk assessment and prevention: Limoges, France.

Geotechnical engineering for transportation projects: Proceedings of Geo-Trans Conference, Los Angeles, CA.

Green streets and Highways 2010: an interactive conference on the state of the art and how to achieve sustainable outcomes: proceedings of the 2010 Green Streets and highways Conference, Denver, CO.

Ground improvement and geosynthetics: proceedings of sessions of GeoShanghai, Shanghai, China.

Grouting, soil improvement, and geosynthetics: proceedings of the conference.

ICCTP (International Conference of Chinese Transportation Professionals) 2010: integrated transportation systems: green, intelligent, reliable.

International conference: bond in concrete: from research to practice, proceedings. Riga, Latvia.

Journal of the soil mechanics and foundations division: proceedings of the ASCE

Layers of perception: proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology, Berlin, Germany.

Life, land and water: proceedings.

Low impact development: new and continuing applications: proceedings of the second National Low Impact Development Conference, Wilmington, NC.

Low impact development: redefining water in the city: proceedings of the 2010 international Low Impact Development Conference, San Francisco, CA.

MAIREPAV6: the Sixth International Conference on Maintenance and Rehabilitation of Pavements and Technological Control: Politecnico di Torino, Italy.

Making history interactive: Computer applications and quantitative methods in archaeology (CAA): proceedings of the 37th international conference, Williamsburg, Virginia.

Materials science and restoration: Proceedings of the third international Colloquium on Materials Science and Restoration.

New techniques for old times, CAA 98: computer applications and quantitative methods in archaeology: proceedings of the 26th conference, Barcelona, Spain.

Noise CON proceedings.

On-site waste-water treatment: proceedings of the Eighth National Symposium on Individual and Small Community Sewage Systems, Orlando FL, 1998.

Proceedings of the IEEE.

Proceedings of the Institution of Civil Engineers. Structures and Buildings.(2)

Proceedings, invited speakers & workshops: 21st ARRB and 11th REAAA Conference, Queensland, Australia.

Proceedings of the international conference on long-life concrete pavements, Chicago, Illinois.

Proceedings of SAGEEP: Symposium on the Application of Geophysics for Engineering and Environmental Problems.

Proceedings of the 7th international Symposium on Field Measurements in Geomechanics.

Recent advances in concrete technology: Fifth CANMET/ACI International Conference on Recent Advances in Concrete Technology, Singapore.

Recycled materials in geotechnics: proceedings of sessions of the ASCE Civil Engineering Conference.

Recycling and reuse of tyres: proceedings of the international symposium organized by the Concrete Technology Unit, University of Dundee, Scotland.

Roads to the 21st Century: a key to competitiveness, International Road Federation Conference and Exposition, Calgary, Alberta, Canada.

TRANSED 2007 Conference : International conference on Mobility and Transport of Elderly and disabled Persons.

Transportation congress: civil engineers – key to the world infrastructure: proceedings of the 1995 Conference.

The world is in your eyes: CAA2005: computer applications and quantitative methods in archaeology: proceedings of the 33rd conference, Tomar, Portugal.

Engineering/Transportation: Exam Materials (8)

16-hour structural Engineering (SE) Practice exam for buildings

Civil & Structural engineering: design of reinforced concrete structures review for the PE exam
FE/EIT sample examinations

Steel design for the civil PE and structural SE exams

Structural engineering reference manual. (2)

Structural engineering solved problems: comprehensive practice for the structural engineering (SE) and PE exams. (2)

Engineering/Transportation: Books (98)

Acoustics: an introduction to its physical principles and applications. (2)

Advanced rail geotechnology – ballasted track

Aluminum design manual

American National Standard for rotodynamic (centrifugal) pumps for Manuals describing installation, operation and maintenance.

American National Standard for rotodynamic (centrifugal) slurry pumps for nomenclature, definitions, applications, and operation.

Anchorage in concrete construction

The asphalt handbook

Assessment of impoundment and forfeiture laws for drivers convicted of SWI: Phase II report: Evaluation of Oregon and Washington vehicle plate zebra sticker laws

Big rigs: in for the long haul. (2)

Bridge design and evaluation: LFRD and LRFR

Bridge superstructure and foundation design

Brownfield sites IV: prevention, assessment, rehabilitation and development of brownfield sites

CEB-FIP (International Federation for Structural Concrete) and model code 1990: design code

Communication & signals manual of recommended practice.

Complete streets: best policy and implementation practices

Concrete

Constructing and controlling compaction of earth fills

Construction and design of pre-stressed concrete segmental bridges

Construction briefings

Construction forms & contracts

Construction vibrations

Degrees of belief: subjective probability and engineering judgement

Design and evaluation of Minnesota's timber rub-rail for noise barriers

Design Manual for bicycle traffic

Digital elevation model technologies and applications: the DEM users manual

Digital signal processing: a practical guide for engineers and scientists

Effects of road reconstruction on adjacent economic activities: a retrospective study

The engineering language: a consolidation of the words and their definitions

Engineering rock mass classifications: a complete manual for engineers and geologists in mining

Essays in transportation economics and policy

Estimating bearing capacity of piles installed with vibratory drivers

Evaluation of the CON/SPAN Wingwall system

Evaluation of rapid setting materials and construction techniques for concrete pavement patches

Evaluation of test methods for measuring the bond strength of Portland-cement based repair materials to concrete

Experimental unsaturated soil mechanics

Exploring requirements: quality before design

Fountains and pools: construction guidelines and specifications

General location of national system of interstate highways: including all additional routes at urban areas designated in September 1955

Geotech wall design and construction... Dauphin County, PA: wing walls for bridge over railroad

Geotechnical and foundation engineering: design and construction

Geotechnical materials in construction

Grade easy: an introductory course in the principles and practices of grading and drainage. (3)

Ground improvement and geosynthetics

Guide for design of anchorage to concrete: examples using ACI 318

Guidelines for partial-depth repair

Handbook of recommended information sign symbols for Canada

The handbook of road safety measures

Highway structures design handbook

A history of progress: selected U.S. papers in geotechnical engineering

Improved drainage and frost action criteria for New Jersey pavement design: phase III: structural strength of pavement with open-graded bases

Kings of the road: a pictorial history of trucks

Manual of surveying instructions: for the survey of the public lands of the United States

Materials for sustainable sites: a complete guide to the evaluation, selection, and use of sustainable construction

Muskegon engineering handbook

On-site storm water management: applications for landscape and engineering

Optimizing storm water treatment practices: a handbook of assessment and maintenance

Pavement design and materials

Pavement performance: current trends, advances, and challenges

Pedal power: the quiet rise of the bicycle in American public life

Pedestrian laws in the United States

Planning urban roadway systems: an ITE proposed recommended practice

Public land surveys: history, instructions, methods

The reinforced concrete design manual: in accordance with the ACI 318-11

Reliability of structures

Research reports: septic tank/water softener

Risk assessment in geotechnical engineering

The road and the car in American life

Roads: finance provision and operation

Route surveying and design

SAE ground vehicle lighting manual

Shakopee by-pass in Scott County Minnesota: Administrative action draft environmental impact statement

Simplified LFRD bridge design

Simplified site engineering

Snowplow safety

Sound intensity

Specifications to support classification, standards of accuracy, and general specifications of geodetic control surveys

Standard guideline for the collection and depiction of existing subsurface utility data

Standard practice for direct design of precast concrete pipe for jacking in trenchless construction

Structural faults and repair

Surveying with construction applications

Surveyor reference manual

Theory of thermal stresses

Thinking about GIS: geographic information system planning for managers

Tire chips as lightweight backfill for retaining walls.

Traffic safety facts

Transmission & distribution world

Transport for suburbia: beyond the automobile age

Twin Cities by trolley: the streetcar era in Minneapolis and St. Paul

Unsaturated soil mechanics in engineering practice

Vignettes of the public land surveys: a striking triumph of geometry over physical geography

Wastewater engineering: treatment and reuse

Water systems handbook: a complete text on wells – their design, operation and maintenance

The Weibull Distribution: a Handbook

WesTrack track fuel roughness, fuel consumption and maintenance costs

Business Mgmt/Human Resources (100)

The 5 languages of appreciation in the workplace: empowering organizations by encouraging people

The 24-carrot manager: a remarkable story of how a leader can unleash human potential

90 minutes to killer presentation skills

1001 ways to reward employees

Agile and iterative development: a manager's guide

Authenticity: what consumers really want

Blue ocean strategy: how to create uncontested market space and make the competition irrelevant

Borrowing brilliance: the six steps to business innovation by building on the ideas of others

The bottom line

Brand warfare: 10 rules for building the killer brand: lessons for new and old economy players

Business horizons

Codependency in the workplace: a guide for employee assistance and human resource professionals

Communicating change: how to win employee support for new business directions

Creating magic: 10 common sense leadership strategies from a life at Disney

Dealing with people you can't stand: how to bring out the best in people at their worst

Death by meeting: a leadership fable: about solving the most painful problem in business

The design of business: why design thinking is the next competitive advantage

Developing women leaders: a guide for men and women in organizations

Discussing the undiscussible: a guide to overcoming defensive routines in the workplace

The diversity toolkit: how you can build and benefit from a diverse workforce

The dream manager

E-mail rules: a business guide to managing policies, security, and legal issues for E-mail and digital communication

The experience economy

Facilitator's guide to participatory decision making

Gender, work and organization

Getting past no: negotiating your way from confrontation to cooperation

Good in a room: how to sell yourself (and your ideas) and win over any audience

Government accounting, auditing and financial reporting

A guide to the project management book of knowledge (PMBOK)

Handbook of practical program evaluation

A handbook for women mentors: transcending barriers of stereotype, race, and ethnicity (2)

Harvard business essentials: coaching and mentoring

How to really use Linked In: discover the true power of LinkedIn and how to leverage it for your business

How to win friends and influence people in the digital age

How we decide

Human relations

Identifying and analyzing user needs: a complete handbook and ready-to-use assessment workbook

Identifying and managing project risk: essential tools for failure-proofing your project

The inclusion breakthrough: unleashing the real power of diversity

Industrial and organizational psychology

The innovation zone: how great companies re-innovate for amazing success

Instant messaging rules: a business guide to managing policies, security, and legal issues for safe IM communication

Interpersonal conflict (2)

Leadership and management in engineering

Leadership and the one-minute manager

Lean in: women, work, and the will to lead

The manager's book of decencies: how small gestures build great companies

Managing ethics in business organizations: social scientific perspectives

Managing with carrots: using recognition to attract and retain the best people

Moral intelligence: enhancing business performance and leadership successes

More with less: maximizing value in the public sector

The next level: what insiders know about executive success

Nuts! Southwest Airlines' crazy recipe for business and personal success

The one minute negotiator: simple steps to reach better agreements

The organizational ombudsman: origins, roles, and operations: a legal guide

Organizational research methods

People management

Performance Dashboards: Measuring, monitoring, and managing your business

Performance measurement: getting results

Personality and organizations

Personnel psychology

Personnel review

Please don't just do what I tell you! Do what needs to be done: every employee's guide to making work more rewarding

The power of inclusion: unlock the potential and productivity of your workforce

Power mentoring: how successful mentors and protégés get the most out of their relationships

Practice standard for earned value management

Practice standard for scheduling

Practice standard for work breakdown structures

Program evaluation & performance measurement: an introduction to practice

Project planning and scheduling using Primavera P6: for all industries including versions 4 to 6: planning and progressing project schedules with and without roles and resources in an established enterprise environment

Public services management: a critical approach (2)

Putting the one minute manager to work

Radical collaboration: five essential skills to overcome defensiveness and build successful relationships

Rainmaking made easy: what every professional must know

Resolving conflicts at work: ten strategies for everyone on the job

Root cause analysis handbook: a guide to efficient and effective incident investigation

Running meetings: expert solutions to everyday challenges

The secrets of facilitation: the S.M.A.R.T. guide to getting results with groups
Self-leadership and the one minute manager: discover the magic of no excuses”
Service management : operations, strategy, information technology
Seven pillars of servant leadership: practicing the wisdom of leading by serving
The speed of trust: the one thing that changes everything
The standard for portfolio management
Strengthsfinder 2.0
The success principles: how to get from where you are to where you want to be
A survival guide to managing employees from hell: handling idiots, whiners, slackers, and other workplace demons
A survival guide to working with bad bosses: dealing with bullies, idiots, back-stabbers, and other managers
Target risk: dealing with the danger of death, disease and damage in everyday decisions
Thinking fast and slow
Through the labyrinth: the truth about how women become leaders
Training
Transitioning new hires into the workplace: the strategy of mentoring
When you work for a bully: assessing your options and taking action
Who's pulling your chain? How to run a land surveying business
Why decisions fail: avoiding the blunders and traps that lead to debacles
The wow! Workplace
Yes! 50 scientifically proven ways to be persuasive

Computer Programs (34)

Adjustment computations: spatial data analysis
Adjustment computations: statistics and least squares in surveying and GIS
Applied numerical methods with MATLAB for engineers and scientists
Building and managing the meta data repository; a full lifecycle guide
Data model patterns: conventions of thought (3)
Excel VBA programming for dummies
An engineer's guide to MATLAB: with applications from mechanical, aerospace, electrical, civil, and biological systems engineering. (2)
Geographic information, metadata, Part 2, Extensions for imagery and gridded data
Getting to know ArcGIS: modelbuilder. (2)
Getting to know ArcObjects: programming ArcGIS with VBA. (2)
Absolute java
Java: a beginners guide
Java for everyone

Java for dummies: quick reference
Java programming
Javascript: a beginner's guide
Lessons learned in software testing: a context-driven approach
Mathematical and computer modeling
MATLAB: demystified
MATLAB for engineers explained
Numerical methods for engineers and scientists: an introduction with applications using MATLAB.
(3)
PHP and MySQL: Javascript and CSS: A Step-by-Step Guide to Creating Dynamic websites
Project planning & scheduling using Primavera P6 for all industries including versions 4 to 6
Sams teach yourself C++ in 24 hours
Scenarios, stories, use cases: through the systems development life-cycle
Spatial statistics: Geospatial Information modeling and thematic mapping
User stories applied: for agile software development

Environment / Ecology (33)

Agenda 21: programme of action for sustainable development
Biodiversity and Native America
Biology and fertility of soils
The biology of rarity: causes and consequences of rare-common differences
Design of wastewater and storm water pumping stations
Development of a salinity/toxicity relationship to predict acute toxicity of saline waters to freshwater organisms
Ecological complexity
Ecological engineering
Ecological monographs. (2)
Effects of detention on water quality of two storm water detention ponds receiving highway surface runoff
Environmental impact assessment of recycled wastes on surface and ground waters: Vol. 2, Risk Analysis
Environmental impact assessment of recycled wastes on surface and ground waters
Environmental modeling with GIS
Environmental restoration: science and strategies for restoring the Earth
Geoenvironmental engineering: ground contamination: pollutant management and remediation
Geostatistics: modeling spatial uncertainty
Growing cooler: the evidence on urban development and climate change
Invasive species in a changing world

A paleoclimatology workbook: high resolution, site-specific macrophysical climate modeling
Postglacial vegetational development in northwestern Minnesota and its implications for prehistoric human ecology. (2)
Powerline: the first battle of America's energy war
Practical geostatistics: modeling and spatial uncertainty
Predicting species occurrences: issues of accuracy and scale
Properties of soil physics
Rock quality, seismic velocity, attenuation and anisotropy
Soil use and management
Solar power in building design: the engineer's complete design resource
Spatial uncertainty in ecology: implications for remote sensing and GIS applications. (2)
Trees: structure and function
Trends in ecology and devolution

Planning (20)

Anatomy of a park: the essentials of recreation area planning and design
A career worth planning: starting out and moving ahead in the planning profession
A concise guide to community planning
Designing healthy communities. (2)
Environmental planning for site development: a manual for sustainable local planning and design
Everyday ethics for practicing planners
Google Sketch-Up for site design: a guide to modeling site plans, terrain, and architecture
A guide to site and environmental planning
The highway and the city
The job of the practicing planner
Local planning: contemporary principles and practice
Organized for action: commitment in voluntary associations
Pedaling revolution: how cyclists are changing American cities
The power of collaborative solutions: six principles and effective tools for building healthy communities
The practice of local government planning
Site analysis: a contextual approach to sustainable land planning and site design
Urban composition: developing community through design
Walkable city: how downtown can save America one step at a time
What planners do: power, politics, and persuasion

Landscape Architecture (19)

Basic elements of landscape architectural design
Business law for landscape architects
A guide to site planning and landscape construction
A guide to site and environmental planning
Landscape architectural graphical standards. (2)
Landscape architect's portable handbook. (2)
Landscape irrigation: design and management
Landscape planning: environmental applications
Management of invasive weeds
Michigan's native landscape: as interpreted from the General Land Office Surveys 1816-1856
Natural landscaping: designing with native plant communities
Planting design
Site engineering for landscape architects
Site furnishings: a complete guide to the planning, selection and use of landscape furniture and amenities
Sunset western garden book. (2)
Time-saver standards for landscape architecture: design and construction data

Other Topics (65)

Atlas of electrochemical equilibria in aqueous solutions
The autistic brain: thinking across the spectrum
Backing hard into river history: including materials autobiographical in nature and a history of the...
The box: how the shipping container made the world smaller and the world economy bigger
Celebrating ethnicity and nation: American festive culture from the Revolution to the early twentieth century
The courage to heal: a guide for women survivors of child sexual abuse
Connected: the surprising power of our social networks and how they shape our lives
Constructing frames of reference: an analytical method for archaeological theory building using hunter-gatherer
Creating minds: an anatomy of creativity seen through the lives of Freud, Einstein, Picasso, ...
Creating a willing online exhibition: a guide for libraries, archives and museums
Disrupting class: how disruptive innovation will change the way the world learns
The dragonfly effect: quick, effective and powerful ways to use social media to drive social change
Everything you wanted to know about Indians but were afraid to ask

Expect more: demanding better libraries for today's complex world

The father of spin: Edward L. Bernays & the birth of public relations

Festivals together: a guide to multi-cultural celebration

First responder

First responder workbook

Fixing my gaze: a scientist's journey into seeing in three dimensions

Forgive us our press passes

Generation ageless: how baby boomers are changing the way we live today – and they're just getting started

Geographic Information – Metadata: Extensions for imagery and gridded data ISO standard 1

Getting the most out of your interactive whiteboard: a practical guide

The golden bough: a study in magic and religion

Grammar Girl's quick and dirty tips for better writing

Greater good: how good marketing makes for a better democracy

Healing the heart of democracy: the courage to create a politics worthy of the human spirit

Health & place

How to live well without owning a car: save money, breathe easier, and get more mileage out of life

Iran: a country study

The lawyer's guide to social networking: understanding social media's impact on the law

Lessons for a scientific literature review: guiding the inquiry

The library marketing toolkit

Library mash-ups: exploring new ways to deliver library data

Licensing digital content: a practical guide for librarians

Making it in America: the case for re-inventing the economy

Managing electronic government information in libraries: issues and practices

Marketing theory (2)

Media advocacy and public health: power for prevention

Millennials in the pop culture: strategies for a new generation of consumers in music, movies, television, the Internet and video games

Mindless eating: why we eat more than we think

Minneapolis population and racial change, 1950-1990; with 1980 and 1990 census tract information

Multicultural celebrations: today's rules of etiquette for life's special occasions

The myths of happiness: what should make you happy but doesn't, what shouldn't make you happy but does

Nudge: improving decisions about health, wealth and happiness

Organizing from the inside out: the foolproof system for organizing your home, your office, and your life

Organizing from the right side of the brain: a creative approach to getting organized

The perfect swarm: the science of complexity in everyday life

Pioneers in the wilderness: Minnesota's Cook County, Grand Marais, and the Gunflint in the 19th Century

Please understand me II: temperament, character, intelligence

The power of your subconscious mind

The price of government: getting the results we need in an age of permanent fiscal crisis

The Scientific World

Seeking our past: an introduction to North American archaeology

Sway: the irresistible pull of irrational behavior

Speech less: tales of a White House survivor

Statistical methods

That's not what I meant!: how conversational style makes or breaks relationships

Thinking in pictures: and other reports from my life with autism

The value of lithic analysis in archaeological interpretation (2)

Water project and drainage law in Minnesota

Words that work: it's not what you say, it's what people hear



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