

UC Berkeley

Library References

Title

Sources of Information in Highways: A Bibliography

Permalink

<https://escholarship.org/uc/item/49w702t6>

Authors

Krummes, Daniel C.

Ambler, Betty

Atwood, Paul

et al.

Publication Date

2001-09-01

Institute of Transportation Studies
University of California at Berkeley

**Sources of Information in Highways:
A Bibliography**

Edited by Daniel C. Krummes

**Compiled by Betty Ambler, Paul Atwood, Janet Bix, Laurel Clark,
John Gallwey, Kay Geary, Judy Gutshall, Susan Haake,
Daniel Krummes, Lynn Matis, Gisela Motzkus and Robert Sweet**

LIBRARY REFERENCE
UCB-ITS-LR-2001-2

September 2001
ISSN: 0068-6115

CONTENTS

Foreword	i
1. Basic References	
General	4
Highway Administration	5
Highway Economics	10
Highway Engineering	13
Highway Environment	20
Highway Research	26
Motor Vehicles	32
Traffic Engineering	40
Traffic Safety	47
2. Statistical Sources	49
3. Directories	56
4. Periodicals	57
5. Conferences	76
6. Dictionaries & Glossaries	80
7. Indexing / Abstracting Services & Data Bases	84
8. Bibliographies	100

FOREWORD

This bibliography, containing over 650 entries, is intended to serve as a guide to the major sources of information on highways. While sources listed focus primarily on the United States and Canada, some international materials have been included. Though emphasis is on current publications, some materials of historical interest have also been included. Resources listed in the bibliography include both print and electronic materials, with many Internet sites falling within that latter category.

The bibliography was a collaborative effort and was compiled by twelve members of the Transportation Division of the Special Libraries Association. The resultant bibliography is part of a larger Transportation Division project, a revised edition of the Division's multi-volume work, *Sources of Information in Transportation*. The full, multi-volume new edition (its 5th) will be available in electronic format on the Internet, with a publication date of late 2001 anticipated. Information concerning the new edition of *Sources of Information in Transportation* may be found at the Division's website: <http://www.library.nwu.edu/transportation/slatran/>

I. Basic References: Part A, General

compiled by Gisela Motzkus
Illinois Dept. of Transportation Library

American Association of State Highway and Transportation Officials. **Public Roads of the Past: Historic American Highways.** Washington, D.C.: The Association, 1953. 183 p.
Describes the development of highway transportation in Colonial America and the United States during more than four centuries.

American Association of State Highway and Transportation Officials. **The States and the Interstates: Research on the Planning, Design and Construction of the Interstate and Defense Highway System.** Washington, D.C.: The Association, 1991. 220 p.
Documents the interstate construction era and its evolution from the 1950s through the 1980s from the states' perspective.

American Association of State Highway and Transportation Officials. **U.S. Numbered Highways.** Washington, D.C.: The Association, 1989. 218 p.
Official log of the U.S. numbered system.

Armstrong, Ellis L. (ed.) **History of Public Works in the United States, 1776-1996.** Chicago, Ill.: American Public Works Association, 1976. 736 p.
Traces the evolution of the most significant public works programs and facilities.

Banasiak, David. **Origins of the Interstates.** In *Roads & Bridges*, vol. 34 (1996), no. 6, pp. 44-52.
Describes the interstate system as the culmination of years of transportation discoveries.

Hindley, Geoffrey. **A History of Roads.** Secaucus, N.J.: The Citadel Press, 1972. 158 p.
Highlights the history of roads, with an emphasis on Europe and North America.

Goddard, Stephen B. **Getting There: The Epic Struggle Between Road and Rail in the American Century.** New York: Basic Books, 1994, 351 p.
Author contends that for America to prosper in the new century, it must seize the potential of high-speed trains, smart roads and the information revolution.

Kaszynski, William. **The American Highway: The History and Culture of Roads in the United States.** Jefferson, N.C.: McFarland, 2000. 229 p.
Describes the evolution of our system of roads and superhighways during the past 100 years.

Lay, Maxwell G. **Ways of the World: A History of the World's Roads and of the Vehicles That Used Them.** New Brunswick, N.J.: Rutgers University Press, 1992. 401 p.
Provides a comprehensive history of the world's roads, highways, and bridges from prehistoric times to the present.

Rose, Albert Chatellier. **Historic American Roads: From Frontier Trails to Superhighways.** New York, N.Y.: Crown Publishers, 1976. 118 p.
Illustrates the astonishing growth of U.S. roads and highways.

Rose, Mark H. **Interstate: Express Highway Politics, 1939-1989; revised edition.** Knoxville, Tenn.: The University of Tennessee Press, 1990. 192 p.
Describes the social and political patterns that led to the passage of the Federal-Aid Highway Act of 1956, the opening of the Highway Trust Fund to mass transit, and the problems of urban gridlock.

Seely, Bruce E. **Building the American Highway System: Engineers as Policy Makers.** Philadelphia, Pa.: Temple University Press, 1987. 315 p.
Examines the highway policy developed over the first half of the 20th century and traces the growth of public roads through the establishment of the interstate system.

Tolley, Robert (ed.) **The Greening of Urban Transport: Planning for Walking & Cycling in Western Cities.** London, Eng.: Belhaven Press, 1990. 309 p.
Collection of essays discussing the incorporation of "green transport modes" – walking and cycling - in modern city transportation plans.

U.S. Federal Highway Administration. **America's Highways 1776-1996: A History of the Federal Aid Program.** Washington, D.C.: 1976. 553 p.
Written in two parts. Part I covers the highway history from colonial times to the 1956 Federal-Aid Highway Act; part II includes information on the administration of the federal-aid program.

Wixom, Charles W. **ARBA Pictorial History of Road Building.** Washington, DC: American Road Builders Association, 1975. 207 p.
Illustrated work which also includes information on roads, road construction and road building equipment.

Basic References: Part B, Highway Administration

compiled by Gisela Motzkus
Illinois Dept. of Transportation Library

Print Sources

American Association of State Highway and Transportation Officials. **Changing State DOTs.** Washington, D.C.: The Association, 1998. 95 p.

Focuses on changes in state DOTs. Including mission and roles, new relationships among government and private sector, changes in program and project delivery approaches, and related issues.

American Association of State Highway and Transportation Officials. **Guide for Contracting, Selecting, and Managing Consultants in Preconstruction Engineering.** Washington, D.C.: The Association, 1996. 96 p.

Provides information useful in establishing consultant programs, organizing and training staff, selecting consultants, and developing consultant contracts.

American Association of State Highway and Transportation Officials. **Reference Book of Member Department Personnel and Committees.** Washington, D.C.: The Association. Annual.

Roster of member highway and transportation departments and personnel, as well as AASHTO officers, committees, and annual meetings.

Dearing, Charles L. **American Highway Policy.** New York, N.Y.: Arno Press, 1978. 286 p.

Originally published in 1942, details the history of American roads and includes information on government policy, management, and finance.

Eno Transportation Foundation, Inc. **The Federal Role in Surface Transportation.** Lansdowne, Va.: The Foundation, 1997. 34 p.

Summarizes the forum discussion on what the federal role should be in surface transportation.

Godfrey, Kneeland A. **Partnering in Design and Construction.** New York, N.Y.: McGraw-Hill, 1996. 305 p.

Featuring real-life case histories, describes how partnering works.

Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991, enacted December 18, 1991 as P.L. 102-240.

Provides funding for highways, highway safety, and mass transit for six years (1992-1997).

Jahren, Charles T. and Mark O. Federle. **Implementation of Quality Improvement for Transportation Construction Administration.** In: *Journal of Management in Engineering* (ASCE), Vol. 15 (1999), No. 6, pp. 56-65.

Article explains how the quality improvement process was started, how it operates, and examines why it continues.

Marriott, Paul Daniel. **Saving Historic Roads: Design & Policy Guidelines.** New York, N.Y.: Wiley & Sons, 1998. 240 p.

Examines the issues surrounding historic roads and offers design and policy guidelines for adapting contemporary engineering practices and transportation laws to these resources.

Pinkston, Elizabeth. **Innovative Financing of Highways: An Analysis of Proposals.** Washington, D.C.: Congressional Budget Office, 1998. 76 p.

Reviews several approaches to augment traditional sources of funding and analyzes changes in rules governing federal aid, state infrastructure banks, federal credit assistance, and private-sector financing of roads.

Rose, Mark H. **Interstate: Express Highway Politics, 1939-1989, revised edition.** Knoxville, Tenn.: The University of Tennessee Press, 1990. 192 p.

Describes the social and political patterns that led to the passage of the Federal-Aid Highway Act of 1956, the opening of the Highway Trust Fund to mass transit, and

Transportation Equity Act for the 21st Century, enacted June 9, 1998 as Public Law 105-178.

Authorizes the federal surface transportation programs for highways, highway safety, and transit for the 6-year period 1998-2003.

Transportation Research Board. **Consultants for DOT Preconstruction Engineering Work.** Washington, D.C.: The Board, 1999. 116 p. (NCHRP Synthesis of Highway Practice no. 277).

Identifies DOT practice regarding the use of consultants for all phases of pre-construction engineering.

Transportation Research Board. **Control of Conflicts of Interest in Highway Construction Contract Administration.** Washington, D.C.: The Board, 1979. 56 p. (NCHRP Research Results Digest no. 109)

Deals with legal questions surrounding conflicts of interest involving public officials.

Transportation Research Board. **Customer-Based Quality in Transportation.** Washington, D.C.: The Board, 1995. 56 p. (NCHRP Report no. 376).

Examines customer-based quality practices of state DOTs.

Transportation Research Board. **Federalism and the Intermodal Surface Transportation Efficiency Act of 1991.** Washington, DC: The Board, 1995. 23 p. (NCHRP Legal Research Digest no. 32).

Describes the federal-state relationship, how federalism has changed over the years, and how federalism and ISTEA affect state highway programs.

Transportation Research Board. **Freedom of Information Act, Federal Data Collections and Disclosure Statutes Applicable to Highway Projects and the Discovery Process.** Washington, D.C.: The Board, 1995. 28 p. (NCHRP Legal Research Digest no 33).

Examines how state DOTs react to document disclosure demands when litigation or claims are potential or pending.

Transportation Research Board. **The Future Highway Transportation System and Society.** Washington, D.C.: The Board, 1997. 183 p.

Provides specific research recommendations designed to develop a better understanding of the societal, economic, and institutional factors that affect, and are affected by, the nation's highway transportation system.

Transportation Research Board. **Information Needs to Support State and Local Transportation Decision Making into the 21st Century.** Washington, D.C.: The Board, 1997. 70 p. (Conference Proceedings no. 14)

Conference helped to identify data needed to improve state and local transportation decision making in the future and the impact of technological advances on data collection and dissemination.

Transportation Research Board. **Measuring State Transportation Program Performance.** Washington, DC: The Board, 1993, 95 p. (NCHRP Report no. 357).

Defines performance measures and indicators to assist state DOTs in evaluating and improving the operational performance of their agencies.

Transportation Research Board. **Outsourcing of State Highway Facilities and Services.** Washington, DC: The Board, 1997. 69 p. (NCHRP Synthesis of Highway Practice no. 246).

Discusses current outsourcing practices of state DOTs work that might previously have been done by state staff to contractors or consultants.

Transportation Research Board. **Performance Measurement in State Departments of Transportation.** Washington, D.C.: The Board, 1997. 69 p. (NCHRP Synthesis of Highway Practice no. 238).

Identifies performance measures currently being used by state DOTs, focusing on what is being measured and how it is measured.

Transportation Research Board. **Selected Studies in Highway Law.** Washington, D.C.: The Board, 1976, last updated in 1991. 4 vol.

*Compilation of highway law, accompanied by **Legal Research Digest**, a separately numbered bulletin.*

Transportation Research Board. **State Departments of Transportation: Strategies for Change.** Washington, D.C.: The Board, 1995. 133 p.

Presents general principles for state DOTs to deal effectively with change, as

well as options for developing strategies, actions, and measures of success to more capably respond to change.

U.S. General Accounting Office. **Highway Infrastructure: FHWA's Model for Estimating Highway Needs is Generally Reasonable, Despite Limitations.** Washington, D.C.: The Office, 2000. 38 p.

Recommends to improve the model's approximation of future lifetime benefits of highway improvements and FHWA's disclosure of some of the uncertainties associated with the model's estimates in its report to the Congress.

U.S. Government Printing Office. **Compilation of Selected Surface Transportation Laws.** Washington, DC: GPO, 1999. 2 vol.

Volume 1, Laws Relating to Infrastructure - covers primarily laws governing infrastructure grant programs and includes Title 23, United States Code, as amended by TEA-21; Volume 2, Regulatory Laws - covers primarily economic and safety regulatory laws.

U.S.. Federal Highway Administration. **America's Highways 1776-1976: A History of the Federal-Aid Program.** Washington, D.C.: The Administration, 1977. 553 p.

Includes information on the administration of the federal-aid program.

U.S.. Federal Highway Administration. **Federal-Aid Policy Guide.** Washington, D.C.: The Administration, 1991-. (Updated irregularly).

Contains Federal Highway Administration's current policies, regulations, and non-regulatory procedural guidance information related to the federal-aid highway program. Also available on the Internet at: <http://www.fhwa.dot.gov/legsregs/directives/fapgtoc.htm>.

U.S.. Office of Management and Budget. **Catalog of Federal Domestic Assistance.** Washington, D.C.: GPO. Annual.

Contains financial and nonfinancial assistance programs administered by departments of the federal government, including the U.S. Dept. of Transportation and its various agencies.

U.S.. Office of the Federal Register. **Code of Federal Regulations: Title 23 - Highways.** Washington, D.C.: U.S. Government Printing Office. Annual.

Covers current regulations governing the Federal Highway Administration and the National Highway Traffic Safety Administration. Also available on the Internet at: <http://www.access.gpo.gov/nara/cfr/>

U.S. Office of the Federal Register. **Federal Register.** Washington, D.C. : U.S. Government Printing Office, daily.

Covers rules, proposed rules, and notices of federal agencies and

organizations, as well as executive orders and other presidential documents. Also available on the Internet at: http://www.access.Government Printing Office.gov/su_docs/aces/aces140.html.

Warne, Thomas R. **Partnering for Success.** New York, N.Y.: ASCE Press, 1994. 86 p.
Offers engineers, contractors, and subcontractors proven partnering skills and techniques needed to succeed in the construction industry.

Internet Resources -- General

U.S. Federal Highway Administration. **Asset Management Primer.** Washington, D.C.: The Administration, 1999. Available from <http://www.fhwa.dot.gov/infrastructure/asstmgmt/amprimer.pdf>; Internet; Accessed January 2001.

Explains the asset management concept, importance, and benefits.

U.S. Federal Highway Administration. **Federal Highway Administration 1998 National Strategic Plan.** Washington, D.C.: The Administration, 1999. Available from <http://www.fhwa.dot.gov/policy/fhplan.html>; Internet; Accessed January 2001.

Sets long-term program, policy, and management goals.

Internet Resources -- Web Sites

American Association of State Highway and Transportation Officials. Available from: <http://www.aashto.org/>; Internet; Accessed January 2001

State Depts. of Transportation Web Sites. Available from: <http://www.fhwa.dot.gov/webstate.htm>; Internet; Accessed January 2001.

Transportation Research Board. Available from: <http://www.nas.edu/trb/index.html>; Internet; Accessed January 2001.

U.S. Federal Highway Administration Web Sites. Available from: <http://www.dot.gov/fhwaweb.htm>; Internet; Accessed January 2001.

Basic References: Part C, Highway Economics

compiled by Betty Ambler

Connecticut Dept. of Transportation Library

Print Sources

American Association of State Highway and Transportation Officials. **Transportation and the Economy.** Washington, D.C.: The Association, 1998. 27 p.

American Association of State Highway and Transportation Officials, and National Governors' Association. **Transportation: Driving a Thriving Economy.** Washington, D.C.: The Association, 1997. 10 p.

American Association of State Highway and Transportation Officials, and Federal Highway Admin. **21st Century Asset Management.** Washington D.C.: The Association, 1998. 20 p.

American Petroleum Institute. **The Funding of Roads in the United States: How the Taxes and Fees Collected from Motorists Are Spent.** Washington D.C.: The Institute, 1997. 80 p.

Boyer, Kenneth Duncan. **Principles of Transportation Economics.** Reading, Mass.: Addison-Wesley, 1998. 416 p.

Gomez-Ibanez, Jose A., William B. Tye and Clifford Winston. **Essays in Transportation Economics and Policy: A Handbook in Honor of John R. Meyer.** Washington, D.C.: Brookings Institution P. 1999. 600 p.

*An authoritative work covering all modes of transportation in relation to economics.
Also available at: www.brooke.edu/pub/books/essays.htm*

Greene, David L., Donald W. Jones and Mark A. Delucchi. **The Full Costs and Benefits of Transportation: Contributions to Theory, Method and Measurement.** New York, N.Y.: Springer Verlag, 1997. 406 p.

MacKenzie, James J., Roger C. Dower and Donald D.T. Chen. **The Going Rate: What it Really Costs to Drive.** Washington, D.C.: World Resources Institute, 1992. 32 p.

McDonald, Edmond L. d'Ouille and Louie Nan Liu. **Transportation Research, Economics and Policy.** Boston, Mass.: Kluwer Academic, 1999. 238 p.

Oum, Tae Hoon et al. **Transport Economics: Selected Readings.** Amsterdam, Netherlands: Harwood Academic Publishers, 1997. 691 p.

Polak, Jacob B., and Arnold Heertje. **Analytical Transport Economics: An International Perspective.** Northampton, Mass.: Edward Elgar Publications, 2000. 418 p.

Roth, Gabriel. **Roads in a Market Economy.** Hants, Eng. : Avebury, 1996. 272 p.

Transportation Research Board. **Transportation Finance, Pricing, and Economics.** Washington, D.C.: Transportation Research Board, 2000. 107 p. (Transportation Research

Record no. 1732).

Transportation Research Board. **Transportation Land Use and Smart Growth.** Washington D.C.: Transportation Research Board, 2000. 79 p. (Transportation Research Record no. 1722).

Transportation Research Board. **Current practices for Assessing Economic Development Impacts from Transportation Investments.** Washington D.C.: Transportation Research Board, 2000. 75 p. (National Cooperative Highway Research Program Synthesis no. 290).

Transportation Research Board. **Information Requirements for Transportation Economic Analysis.** Washington D.C.: Transportation Research Board, 2000. 153 p. (Conference Proceedings no. 21).

Transportation Research Board. **Assessing the Economic Impact of Transportation Projects: How to Choose the Appropriate Technique for Your Project.** Washington D.C.: Transportation Research Board, 1997. 28 p. (Transportation Research Circular no. 477).

Transportation Research Board. **Transportation Finance for the 21st Century.** Washington D.C.: Transportation Research Board, 1997. 201 p. (Conference Proceedings no. 15).

Transportation Research Board. **Macroeconomic Analysis of the Linkages Between Transportation Investments and Economic Performance.** Washington D.C.: Transportation Research Board, 1997. 83 p. (National Cooperative Highway Research Program Report no. 389).

Transportation Research Board. **Transportation Finance, Training, Strategic Management and Economic Analysis.** Washington D.C.: Transportation Research Board, 1995. 107 p. (Transportation Research Record no. 1498).

Transportation Research Board. **Economics, Finance, and Administration.** Washington D.C.: Transportation Research Board, 1992. 196 p. (Transportation Research Record no. 1359).

Transportation Research Board. **Primer on Transportation, Productivity and Economic Development.** Washington D.C.: The Association, 1991. 111p. (National Cooperative Highway Research Program Report no. 342).

U.S. General Accounting Office. **Highway Infrastructure: FHWA's Model for Estimating Highway Needs is Generally Reasonable, Despite Limitations: Report to Congressional Committees.** Washington D.C.: The Office, 2000. 38 p.

U.S. Federal Highway Administration. **Highway Economic Requirement System.** Washington D.C.: The Administration, 1997. 1 vol.

Internet Resources

Great Britain. Dept. of the Environment. **1996 Valuation of the Benefits of Prevention of Road Accidents and Casualties.** (Highways Economics Note no. 1). Available from: www.roads.detr.gov.uk/roadsafety/rvs/hen1_97.htm; Internet; Accessed in January 2001.

Keegan, Victor. **Highway Economics.** (In: **Prospect**, Jan. 1997). Available from: www.prospect-magazine.co.uk/highlights/highway/; Internet; Accessed in January 2001.

Taylor, Brian. **Urban Planning 289: Transportation Economics, Finance, and Policy.** University of California, Los Angeles, School of Public Policy and Social Research, Dept. of Urban Planning. Available from: www.spspr.ucla.edu/dup/courses/s99/289S99.html; Internet; Accessed in January 2001.

Basic References: Part D, Highway Engineering

compiled by Laurel Clark

California Dept. of Transportation Library

American Association of State Highway and Transportation Officials. **AASHTO Guide for Design of Pavement Structures, 1993.** Washington, D.C.: The Association, 1993. 1 vol.
*Replaces Volume 1 of the 1986 basic design guide. The 1993 Guide is supplemented by the **Supplement to the AASHTO Guide for Design for Structures, Part II, Rigid Pavement Design and Rigid Pavement Joint Design**, 1998, 74 p. This supplement includes alternative design procedures to use in place of or in conjunction with the 1993 Guide.*

American Association of State Highway and Transportation Officials. **AASHTO LRFD Bridge Construction Specifications.** Washington, D.C.: The Association, 1998. 1st ed. 1 vol.

*Companion to the **AASHTO LRFD Bridge Design Specifications**; in SI (metric) units. Updated by interim replacement pages in 2000.*

American Association of State Highway and Transportation Officials. **AASHTO LRFD Bridge Design Specifications.** Washington, D.C.: The Association, 1998. 2nd ed. 1 vol.
*Two separate 1998 editions published: **Customary U.S. Units** and **SI Units**. They supersede the 1994, 1st edition, and accompanying 1996 and 1997 interim specifications.*

American Association of State Highway and Transportation Officials. **AASHTO LRFD Movable Highway Bridge Design Specifications**. Washington, D.C.: The Association, 2000. 1st ed. 1 vol.

American Association of State Highway and Transportation Officials. **AASHTO Maintenance Manual, 1999**. Washington, D.C.: The Association, 1999. 1 vol.
Updates information previously published in AASHTO's 1987 Maintenance Manual, 1987 Manual for Bridge Maintenance, and 1980 Guide for Bridge Maintenance Manual.

American Association of State Highway and Transportation Officials. **Bridge Welding Code (ANSI/AASHTO/AWS D1.5-96)**. Washington, D.C.: The Association, 1996. 230 p.
Prepared jointly by AASHTO and the American Welding Society and approved by the American National Standards Institute. Contains requirements for welding structural steel highway bridges, in SI (metric) units. Updated by 1999 interim revisions.

American Association of State Highway and Transportation Officials. **Guide for the Development of Bicycle Facilities**. Washington, D.C.: The Association, 1999. 3rd ed. 78 p.
Supersedes the 1991 edition. Also on CD-ROM.

American Association of State Highway and Transportation Officials. **Guide Specifications for Bridge Railings, 1989**. Washington, D.C.: The Association, 1989. 49 p.
Revision pages added in 1990 and 1992.

American Association of State Highway and Transportation Officials. **Guide Specifications for Aluminum Highway Bridges**. Washington, D.C.: The Association, 1991. 94 p.
Updated with interim guidelines in 2000, 12 p.

American Association of State Highway and Transportation Officials. **Guide Specifications for Design and Construction of Segmental Concrete Bridges, 1999**. Washington, D.C.: The Association, 1999. 2nd ed. 1 vol.
Updates the 1989 edition. Prepared for use with the 16th edition of Standard Specifications for Highway Bridges.

American Association of State Highway and Transportation Officials. **Guide Specifications for Fatigue Design of Steel Bridges, 1990**. Washington, D.C.: The Association, 1990. 1 vol.
Provides alternative and more accurate fatigue design procedures than found in the Standard Specifications for Highway Bridges. Updated by revision pages in 1991 and 1993.

American Association of State Highway and Transportation Officials. **Guide Specifications for Fatigue Evaluation of Existing Steel Bridges**. Washington, D.C.: The Association,

1990. 1 vol.

Provides a methodology for rating existing steel bridges. Updated by revision pages in 1993 and 1995.

American Association of State Highway and Transportation Officials. **Guide Specifications for Highway Construction**. Washington, D.C.: The Association, 1998. 8th ed. 306 p.

Updates the 1992 edition with SI (metric) units; structures section has been added. Includes CD-ROM.

American Association of State Highway and Transportation Officials. **Guide Specifications for Horizontally Curved Highway Bridges**. Washington, D.C.: The Association, 1993.

111 p.

Includes information on I-girder and box girder structures.

American Association of State Highway and Transportation Officials. **Guide Specifications for Seismic Isolation Design**. Washington, D.C.: The Association, 1999. 2nd ed. 1 vol.

*Covers requirements for seismic design; supplements the **Standard Specifications for Highway Bridge**. Interim replacement pages issued in 2000.*

American Association of State Highway and Transportation Officials. **Guide Specifications for Strength Evaluation of Existing Steel and Concrete Bridges, 1989**. Washington, D.C.: The Association, 1989. 23 p.

Provides a methodology for rating existing steel and concrete bridges.

American Association of State Highway and Transportation Officials. **Guide Specifications for Structural Design of Sound Barriers, 1989**. Washington, D.C.: The Association, 1989.

38 p.

Provides design criteria for the preparation of plans and specifications for sound barriers.

American Association of State Highway and Transportation Officials. **Highway Drainage Guidelines**. Washington, D.C.: The Association, 1999. Metric ed. 14 volumes in 1 vol.

Focuses on hydrology and hydraulics problems. Metric conversion of the 1992 edition; volumes XI, XII, XIII, and XIV have been added.

American Association of State Highway and Transportation Officials. **Manual for Condition Evaluation of Bridges**. Washington, D.C.: The Association, 2000. 2nd ed. 136 p.

Provides uniformity in the procedures and policies for determining the physical condition, maintenance needs and load capacity for highway bridges. Replaces the 1994 edition and its 1998 interim revisions.

American Association of State Highway and Transportation Officials. **Manual on Subsurface Investigations, 1988**. Washington, D.C.: The Association, 1987, 391 p.

Covers in detail the many aspects of conducting subsurface investigations for transportation facilities.

American Association of State Highway and Transportation Officials. **A Policy on Geometric Design of Highways and Streets**. Washington, D.C.: The Association, 1994. 1006 p.

Includes information on the design of local streets and roads, collector roads, rural and urban arterials, freeways, interchanges and intersections. Supersedes the 1990 edition and is in metric units. Also CD-ROM. Also referred to as the "AASHTO Green Book".

American Association of State Highway and Transportation Officials. **Standard Specifications for Highway Bridges**. Washington, D.C.: The Association, 1996. 16th ed. 1 vol.

Updated with a new edition every few years, with interim specifications published annually. In customary U.S. units.

American Association of State Highway and Transportation Officials. **Standard Specifications for Movable Bridges**. Washington, D.C.: The Association, 1988. 75 p.

*To be used in conjunction with the **Standard Specifications for Highway Bridges**.*

American Association of State Highway and Transportation Officials. **Standard Specifications for Transportation Materials and Methods of Sampling and Testing**. Washington, D.C.: The Association, 2000. 20th ed. 2 vol.

Revised every four years with interim specifications issued annually. Part 1 includes specifications with a cross reference to ASTM standards. Part 2 focuses on methods of sampling and testing.

American Concrete Institute. **ACI Manual of Concrete Practice**. Farmington Hill, Mich.: The Institute, 1998. 5 vols.

Revised annually.

American Concrete Institute. Committee 318. **Building Code Requirements for Structural Concrete: (ACI 318-99); and commentary (ACI 318R-99)**. Farmington Hills, Mich.: The Institute, 1999. 391 p.

American Institute of Steel Construction. **Load & Resistance Factor Design: Manual of Steel Construction**. Chicago, Ill: The Institute, 1998. 2nd ed. (2nd revision). 2 vol.

Volume 1, Structural members, specifications, and codes; Volume 2, Connections.

American Society of Testing and Materials. **2000 Annual Book of ASTM Standards: Section 4, Construction; Volume 04.03, Road and Paving Materials; Vehicle-Pavement Systems**. Philadelphia, Pa.: The Society, 2000. 1 vol.

Atkinson, Ken (ed.) **Highway Maintenance Handbook**. London, Eng. : Thomas Telford, 1997. 2nd ed. 562 p.

Barker, Richard M., and Jay A. Puckett. **Design of Highway Bridges: based on AASHTO LRFD Bridge Design Specifications**. New York, N.Y.: Wiley, 1997. 1169 p.
Provides an introduction to the theory and principles of highway bridge design, including detailed coverage of engineering basics for the design of short and medium span bridges.

Brockenbrough, R. L. and Kenneth J. Boedecker. **Highway Engineering Handbook: Building and Rehabilitating the Infrastructure**. New York, N.Y.: McGraw-Hill, 1996. 1 vol.
Comprehensive reference on all aspects of highway design, construction, repair, and rehabilitation.

Brown, Robert Wade. **Practical Foundation Engineering Handbook**. New York, N.Y.: McGraw-Hill. 2001. 2nd ed. 1 vol.
A text covering soil mechanics and foundation design, behavior, or repair.

Chen, Wai-Fah, and Lian Duan (eds.) **Bridge Engineering Handbook**. Boca Raton, Fla.: CRC Press, 2000. 1 vol.
Addresses all facets of planning, design, inspection, construction, history and aesthetics.

Chen, Wai-Fah (ed.) **Handbook of Structural Engineering**. Boca Raton, Fla.: CRC Press, 1997. 1 vol.

Concrete Reinforcing Steel Institute. **CRSI design handbook: based upon the 1995 ACI Building Code**. Schaumburg, Ill.: The Institute, 1996. 1 vol.

Concrete Reinforcing Steel Institute. **Manual of Standard Practice**. Schaumburg, Ill.: The Institute, 1997. 26th ed. 1 vol.

Croney, Paul and David Croney. **Design and Performance of Road Pavements**. New York, N.Y.: McGraw-Hill, 1998. 3rd ed. 508 p.

Gaylord, Edwin H., Charles N. Gaylord and James E. Stallmeyer. **Structural Engineering Handbook**. New York, NY: Wiley, 1997. 4th ed. 1 vol.
A basic handbook for the highway design practitioner.

Gimsing, Niels J. **Cable Supported Bridges: Concept and Design**. New York, N.Y.: Wiley, 1997. 2nd ed. 471 p.

- Hamill, L. **Bridge Hydraulics**. London, Eng.: E & F.N. Spon, 1999. 367 p.
- Hoffman, Edward S., David P. Gustafson and Albert Gouwens. **Structural Design Guide to the ACI Building Code**. New York, N.Y.: Van Nostrand Reinhold, 1998. 4th ed. 466 p.
Contracts/specifications for reinforced concrete.
- Huang, Yang H. **Pavement Analysis and Design**. Englewood Cliffs, N.J.: Prentice Hall, 1993. 805 p.
*A textbook covering structural analysis and design of highway pavements.
Two original computer programs are included on disk at back of text.*
- Institute of Transportation Engineers. **Design and Safety of Pedestrian Facilities : A Recommended Practice**. Washington, D.C.: The Institute, 1998. 119 p.
- Lay, M. G. **Handbook of Road Technology**. New York, N.Y.: Gordon and Breach Science, 1998. 3rd ed. 2 vols.
*Research based on Australian practice and expanded for the international audience.
Volume 1, Planning Pavements; Volume 2, Traffic and Transport.*
- Merritt, Frederick S., M. Kent Loftin and Jonathan T. Ricketts, eds. **Standard Handbook for Civil Engineers**. New York, NY: McGraw-Hill, 1996. 4th ed. 1 vol.
Comprehensive book of civil engineering principles and techniques. Also available on CD-ROM.
- Precast/Prestressed Concrete Institute. **PCI Design Handbook: Precast and Prestressed Concrete**. Chicago, Ill: The Institute, 1999. 5th ed. 1 vol.
Based on the latest ACI building code. Includes load tables, product information, and information on the design of components and connections.
- Priestly, M.J.N., F. Seible and G. M. Calvi. **Seismic Design and Retrofit of Bridges**. New York, N.Y.: Wiley, 1996. 686 p.
- Ramsey, Charles George, Harold Reeve and John Ray Hoke. **Ramsey/Sleeper Architectural Graphic Standards**. New York, N.Y.: Wiley, 2000, 10th ed. 1072 p.
Updated with Annual Cumulative Supplements. Also on CD-ROM.
- Ross, Steven and Kenneth B. Woods. **Highway Design Reference Guide**. New York, N.Y.: McGraw-Hill, 1989. Rev. ed. 1 vol.
A basic reference tool which focuses on highway engineering including soil mechanics, foundations, materials, maintenance, landscaping and traffic engineering.

Taly, Narendra. **Design of Modern Highway Bridges**. New York, N.Y.: McGraw-Hill, 1998. 1352 p.

U.S. Dept. of Agriculture. Forest Service. **Earth and Aggregate Surfacing Design Guide for Low Volume Roads**. Washington, D.C.: The Service, 1996. 302 p.

U.S. Dept. of Agriculture. Forest Service. **Timber Bridges: Design, Construction, Inspection, and Maintenance**. Washington, D.C.: The Service, 1992. 1 vol.

U.S. Federal Highway Administration. **Current Planning Guidelines and Design Standards Being Used by State and Local Agencies for Bicycle and Pedestrian Facilities**. Washington, D.C.: The Administration, 1992. 98p.

Part of the National Bicycle and Walking Study, Case Study no.24. Defines state-of-the-art practices that can be used as a model by communities for the successful development of these facilities.

U.S. Federal Highway Administration. **Flexibility in Highway Design**. Washington, D.C.: The Administration, 1997. 193 p.

Incorporates aesthetic, scenic, historic, cultural, and physical characteristics of a community into the highway design process.

U.S. Federal Highway Administration. **Local Low Volume Roads and Streets**.

Washington, D.C.: The Administration, 1992. 156 p.

Basic easy-to-use reference source for local governments, not a standard. Prepared by the American Society of Civil Engineers, Highway Division.

U.S. Federal Highway Administration. **Materials and Procedures for Rapid Repair of Joint Seals in Portland Cement Concrete Pavements -- Manual of Practice**. Washington, D.C.: The Administration, 2000. 112 p.

This updated version of the 1993 Strategic Highway Research Program (SHRP) Manual of Practice covers sealants and resealing methods, availability and cost of sealant materials and the planning, designing, constructing and monitoring of joint resealing projects.

U.S. Federal Highway Administration. **Materials and Procedures for Rapid Repair of Partial-Depth Spalls in Concrete Pavements -- Manual of Practice**. Washington, D.C.: The Administration, 2000. 135 p.

This updated version of the 1993 SHRP Manual of Practice covers repair materials and methods, availability and cost of repair materials and the planning, designing, constructing and monitoring of spall repair projects.

U.S. Federal Highway Administration. **Materials and Procedures for Rapid Repair of**

Potholes in Asphalt-Surfaced Pavements -- Manual of Practice. Washington, D.C.: The Administration, 2000. 73 p.

This updated version of the 1993 SHRP Manual of Practice contains information on the performance characteristics of repair materials and methods, and the planning, designing, constructing and monitoring of pothole repair projects.

U.S. Federal Highway Administration. **Materials and Procedures for Sealing and Filling Cracks in Asphalt-Surfaced Pavements -- Manual of Practice.** Washington, D.C.: The Administration, 2000. 94 p.

This updated version of the 1993 SHRP Manual of Practice covers performance of treatment materials and methods, availability and costs of materials and the planning, designing, constructing and monitoring of crack treatment projects.

U.S. Federal Highway Administration. **Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects.** Washington, D.C.: The Administration, 1996. 813 p.

Issued primarily for use in construction of roads and bridges on highway projects under FHWA administration.

Walther, Rene et al. **Cable Stayed Bridges.** London, Eng.: Thomas Telford, 1999. 2nd ed. 225 p.

Examines all aspects of the design of cable-stayed bridges.

Wang, Chu-Kia and Charles G. Salmon. **Reinforced Concrete Design.** Menlo Park, Calif.: Addison-Wesley, 1998. 6th ed. 1028 p.

Wignall, Arthur. **Roadwork: Theory and Practice.** Oxford, Eng.: Butterworth Heinemann, 1999. 4th ed. 309 p.

A basic text which provides the basic theory of road construction. Intended audience are actual road workers.

Wright, P. H. **Highway Engineering.** New York, NY: Wiley, 1996. 6th ed. 680 p.

Basic References: Part E, Highway Environment

compiled by Susan Haake

California Dept. of Transportation Library

American Association of State Highway and Transportation Officials. **A Design Guide for Wildlife Protection and Conservation for Transportation Facilities.** Washington, D.C.:

The Association, 1976. 51 p.

Hasn't been updated, but still contains valuable information on wildlife conservation .

American Association of State Highway and Transportation Officials. **Guide for Snow and Ice Control.** Washington, D.C.: The Association, 1999. 256 p.

Presents principles and practices for various climatological, environmental and operational conditions in the management of snow and ice control. Includes comprehensive bibliography to help managers develop policies, guidelines and procedural manuals.

American Association of State Highway and Transportation Officials. Highway Subcommittee of Design, Task Force for Environmental Design. **A Guide for Transportation Landscape and Environmental Design.** Washington, D.C.: The Association, 1991. 163 p.

*Supersedes 1970 **Guide for Highway Landscape and Environmental Design.** The 1991 Guide should be used with the AASHTO **A Policy on Geometric Design of Streets and Highways.***

American Association of State Highway and Transportation Officials. Highway Subcommittee of Design, Task Force for Environmental Design. **A Guide on Evaluation and Abatement of Traffic Noise.** Washington, D.C.: The Association, 1993. 40 p.

*Covers state-of-the-art in traffic noise reduction. Previous editions include AASHTO **Guide on Evaluation and Attenuation of Traffic Noise,** published first in 1974 and again in 1985.*

American Association of State Highway and Transportation Officials. Special Committee on Environment, Archaeology and Historical Preservation. **Hazardous Waste Guide for Project Development.** Washington, D.C.: The Association, 1990. 9 p.

Outlines steps to take to identify and deal with hazardous waste potential at proposed project sites.

American Association of State Highway and Transportation Officials. Task Force for Environmental Design of the Standing Committee on Highways, Subcommittee on Design. **Guide to Wetland Mitigation Issues for Transportation Designers.** Washington, D.C.: The Association, 1996. 80 p.

Provides guidance on wetland mitigation to transportation designers as well as to personnel in construction, operations, maintenance, landscape design, and related environmental fields. Includes a glossary of terms, bibliography, and key laws.

American Association of State Highway and Transportation Officials. Task Force on Hydrology and Hydraulics. **Model Drainage Manual.** Washington, D.C.: The Association, 1999. Metric ed. 1 vol.

Updates 1st edition published in 1991. Provides guidance on most aspects of highway

drainage, including wetlands hydrology, surface water environment, and erosion and sediment control. Extensive glossary.

Blum, Randolph F. **Junkyards: The Highway and Visual Quality.** Washington, D.C.: Federal Highway Administration, 1979. 134 p.

Although dated, appears to be one of the few publications on the subject of junkyards. Examines the visual screening of highways and offers practical design guidelines.

California. Dept. of Transportation. Environmental Program. **Technical Noise Supplement: A Technical Supplement to the Traffic Noise Analysis Protocol.** Sacramento, Calif.: The Dept., 1998. 1 vol.

*Elaborates on technical concepts and procedures referred to in the Caltrans **Traffic Noise Analysis Protocol**, such as the physics of sound, human reaction to noise, measurement and instrumentation, traffic noise impacts and prediction, and noise barrier design. Includes lengthy glossary and subject bibliography.*

May also be used as a stand-alone document for training purposes, or as a basic reference on transportation noise, particularly highway traffic noise. Available at: <http://www.dot.ca.gov/hq/env/noise/index.htm> Additional training resources & modules at <http://www.dot.ca.gov/hq/env/noise/training.htm>

California. Dept. of Transportation. Environmental Program. **Traffic Noise Analysis Protocol: For New Highway Construction and Reconstruction Projects.** Sacramento, Calif.: The Dept., 1998. 1 vol.

*Contains Caltrans noise policies, procedures and practices directed toward agencies that sponsor new construction or reconstruction transportation projects. Evaluates potential traffic and noise impact; and determines reasonable and feasible noise abatement/mitigation measures. Technical information is included in the Caltrans **Technical Noise Supplement**. <http://www.dot.ca.gov/hq/env/noise/index.htm> Additional training resources & modules available at <http://www.dot.ca.gov/hq/env/noise/training.htm>*

Canter, Larry W. **Environmental Impact Assessment.** New York, N.Y.: McGraw-Hill, 1996. 2nd ed. 660 p.

In addition to presenting basic information on conducting environmental impact assessments, chapters cover air, surface water, groundwater, noise, visual impacts, and public participation.

E. Roberts Alley & Associates. **Air Quality Control Handbook.** New York, N.Y.: McGraw-Hill, 1998. 1 vol.

Presents practice-oriented balance of regulatory, technical and management aspects of air pollution control.

Evink, Gary L., Paul Garrett and David Zeigler (eds.) **Proceedings of the Third International Conference on Wildlife Ecology and Transportation: September 13-16, 1999, Missoula, Montana.** Tallahassee, Fla.: Florida Department of Transportation, 1999. 332 p.

Focuses on wildlife in relation to conservation, habitat improvement, corridors, roadkill, and traffic safety.

Forkenbrock, David J. and Lisa A. Schweitzer. **Environmental Justice and Transportation Investment Policy.** Iowa City, Iowa: University of Iowa, Public Policy Center, 1997. 106 p.

Examines the relationship between environmental justice, a public policy goal intended to ensure that government actions do not adversely affect minority and low-income populations, and the social, economic and environmental impacts associated with transportation system changes.

Harris, Cyril M. **Handbook of Acoustical Measurements and Noise Control.** Woodbury, N.Y.: Acoustical Society of America, 1997. 3rd ed. 1 vol.

*Comprehensive handbook covering all aspects of noise pollution, including traffic, aircraft, and rail noise. Originally published in 1991(reprinted in 1997); updates Harris' **Handbook of Noise Control**, 2d ed., 1979.*

Howard/Stein-Hudson Associates, Inc.. **Public Involvement Techniques for Transportation Decision-Making.** Washington, D.C.: Federal Highway Administration, 1996. 226 p.

*Covers specific techniques for involving all levels of the public in the decision making process, such as conducting meetings, holding special events, and using new technologies to reach the public. Includes 14 techniques originally published in **Innovations in Public Involvement for Transportation Planning.** (U.S. FHWA, 1994, 1 vol.). See: <http://www.fhwa.dot.gov/reports/pittd/cover.htm>*

HTNB Corporation. **Aesthetic Guidelines for Bridge Design.** [St. Paul, Minn.] : Minnesota Dept. of Transportation, Office of Bridges and Structures, 1995. 1 vol.

Covers the aesthetics of bridge design, from the early stages of layouts through final construction.

Keith, Lawrence H. and Mary M. Walker. **Handbook of Air Toxics: Sampling, Analysis, and Properties.** Boca Raton, Fla.: Lewis Publishers, 1995. 614 p.

Comprehensive reference covering sampling and analysis; emissions reductions; and health and safety issues related to exposure to airborne toxics.

Kotzen, Benz and Colin English. **Environmental Noise Barriers: A Guide to Their Acoustic and Visual Design.** London: New York: E & FN Spon, 1999. 165 p.

Covers engineering, safety, environmental and cost considerations of designing and

constructing noise barriers.

Maidment, David R. (ed.) **Handbook of Hydrology**. New York, N.Y.: McGraw-Hill, 1993. 1 vol.

Compendium of hydrology theory and practice, covering areas such as water quality, contaminant transport in surface water and groundwater, effects of land-use changes such as deforestation, groundwater pollution control, and flood control. Includes about 3000 references to the hydrology literature.

Organisation for Economic Co-operation and Development [OECD]. **The Economic Appraisal of Environmental Projects and Policies: A Practical Guide**. Paris, France: The Organisation, 1995. 171 p.

Written for non-specialists, i.e., policy analysts and decision makers, explains basic principles, fields of application, strengths and weaknesses of existing economic evaluation techniques.

Organisation for Economic Co-operation and Development [OECD]. **Environmental Impact Assessment of Roads**. Paris, France: The Organisation, 1994. 186 p.

From an international perspective, reviews traditional environmental impact assessment methods and procedures.

Organisation for Economic Co-operation and Development [OECD]. **Roadside Noise Abatement**. Paris, France: The Organisation, 1995. 170 p.

From an international perspective, reviews current state-of-the-art noise abatement techniques for new and existing roads.

Saunders, Denis A. and Richard J. Hobbs, eds. **Nature Conservation 2, the Role of Corridors**. Chipping Norton, N.S.W.: Surrey Beatty & Sons, 1991. 442 p.

Topics include a review of roads, roadsides and wildlife conservation; corridors and connectivity; and using GIS to identify regional wildlife corridors.

Scenic America. **The Highway Beautification Act: A Broken Law**. Washington, D.C.: Scenic America, 1996. 27 p.

Charges that the Highway Beautification Act is not meeting its goal of providing billboard control, and in fact, the American public is "losing miles of rural scenery, thousands of public trees, and millions of dollars each year." Findings are based on surveys of 46 states that have billboards.

Tiner, Ralph W. **Wetland Indicators: A Guide to Wetland Identification, Delineation, Classification, and Mapping**. Boca Raton, Fla.: Lewis Publishers, 1999. 392 p.

Presents current concepts and methods for identifying, describing, classifying and delineating wetlands in the U.S. Provides more than 60 tables, including extensive tables of wetland plant communities and examples for determining hydrophytic

vegetation.

Transportation Research Board. **Best Management Practices for Environmental Issues Related to Highway and Street Maintenance.** Washington, D.C.: The Board, 1999. 103 p. (National Cooperative Highway Research Program , NCHRP Synthesis of Highway Practice no. 272).

Based on a survey of maintenance agencies in the U.S. and in Canada, discusses successful management practices that address environmental concerns associated with road maintenance operations.

Transportation Research Board. **Mitigation of Nighttime Construction Noise, Vibrations, and Other Nuisances.** Washington, D.C.: The Board, 1999. 93 p. (National Cooperative Highway Research Program , NCHRP Synthesis of Highway Practice no. 218).

Describes current practice in mitigating nighttime construction nuisances such as noise, vibration, light, and dust.

Transportation Research Board. **Relationship Between Pavement Surface Texture and Highway Traffic Noise.** Washington, D.C.: The Board, 1998. 85 p. (National Cooperative Highway Research Program , NCHRP Synthesis of Highway Practice no. 268).

Provides detailed information on acoustical definitions, theory of tire/pavement noise, measurement techniques, effects of pavement wear, and surface friction and safety considerations.

U.S. Army. Corps of Engineers. **Techniques for Restoring and Creating Marshes and Forested Wetlands.** Vicksburg, Miss.: U.S. Army Engineer Waterways Experiment Station, Wetlands Research Program, 1994. 1 videocassette.

This video recording comes highly recommended.

U.S. Federal Highway Administration. **Scenic Byways.** Washington, D.C.: The Dept., 1988. 1 vol.

*Provides an overview of U.S. scenic road programs, including the history of federal, state and local programs. Includes an impressive bibliography on scenic highways. The subsequent development of the National Scenic Byways Program is described in the **National Scenic Byways Study** (U.S. FHWA, 1991, 94 p); and the **Scenic Byways Advisory Committee Report** (U.S. FHWA, 1994, 34 p).*

U.S.. Federal Highway Administration. National Scenic Byways Program. **Byway Beginnings: Understanding, Inventorying, and Evaluating a Byway's Intrinsic Qualities.** Washington, D.C.: The Dept., 1999. 80 p.

*Describes the byway planning process, utilizing the National Scenic Byways Program. The website, <http://www.byways.org>, also contains useful information, as well as ordering instructions for their colorful map, **America's Byways**.*

U.S.. Federal Highway Administration. Office of Environment and Planning. **Evaluation and Management of Highway Runoff Water Quality.** Washington, D.C.: The Dept., 1996. 457 p.

Intended as a self-contained desk reference for highway practitioners, focuses on highway storm water runoff in relation to water quality impact assessment.

U.S. Federal Transit Administration. **Transportation: Environmental Justice and Social Equity Conference Proceedings.** Washington, D.C.: The Office, 1995. 91 p.

Topics covered include evaluating the impacts of siting transportation facilities in low-income communities, providing equity in transportation investments, and creating livable communities based on input from all levels of the community.

Urban Runoff Quality Management. Prepared by a joint task force of the Water Environment Federation and American Society of Civil Engineers. Alexandria, Va: WEF; Reston, Va.: ASCE, 1998. 259 p.

*Discusses best management practices for urban runoff/storm water quality management. Companion volume to **Design and Construction of Urban Stormwater Management Systems** (ASCE; WEF, 1992, 724 p.)*

Basic References: Part F, Highway Research

compiled by Judy Gutshall

Pennsylvania Dept. of Transportation Knowledge Center

Print Sources

Transportation Research Board. **Highway Research: Current Programs and Future Directions.** Washington, D.C.: The Board, 1994, 112 p. (TRB Special Report no. 244).

This study reflects the organization of the highway industry, highway R & T programs, and the increased visibility within the highway and transportation communities. Highway research is seen as a means of addressing an array of transportation problems. This report provides an overview of highway R & T programs.

Transportation Research Board. **National Cooperative Highway Research Program. Facilitating the Implementation of Research Findings: A Summary Report.**

Washington, D.C.: The Board, 1996. 18 p. (NCHRP Report no. 382).

The risk that research results will not be implemented and yield benefits is covered by this study. Research was conducted to identify and evaluate the factors that influence the implementation of research findings and recommendations are made for strategies to facilitate the timely application of research results.

Transportation Research Board. National Cooperative Highway Research Program. **Guidebook to Highway Contracting for Innovation: The Role of Procurement and Contracting Approaches in Facilitating the Implementation of Research Findings.** Washington, D.C.: The Board, 1999. 46 p. (NCHRP Report no. 428.).

The expectation is that “research pays off” by yielding innovative products and practices that will benefit future transportation users and providers. This guide encourages the use of procurement and contracting approaches that will facilitate implementation of research findings.

Transportation Research Board. National Cooperative Highway Research Program. **Seven Keys to Building a Robust Research Program.** Washington, D.C.: The Board, 1999. 64 p. (NCHRP Synthesis no. 280).

Must reading for all research managers, this study provides the keys to making the research program a vital part of organizations. Research programs must be perceived by top management as delivering an essential service.

Transportation Research Board. National Cooperative Highway Research Program. **Transportation Research Thesaurus and User’s Guide.** Washington, D.C.: The Board, 2001. 60 p. (NCHRP Report no. 450). .

This thesaurus provides a common language between the providers and the users of information. Provided primarily for use in TRIS, the thesaurus is also offered as a general transportation thesaurus for use by other information services for researchers, managers, and end users in the transportation field. Note: includes CD-ROM.

Internet Resources

American Association of State Highway and Transportation Officials. Available from: <http://www.transportation.org>; Internet; Accessed June 2001.

The AASHTO website provides access to the AASHTO Journal, announces upcoming activities, reports on highway issues, AASHTO’s accreditation program, and AASHTO’s Materials Reference Laboratory.

American Public Works Association Resource Center. Available from: <http://www.apwa.net/ResourceCenter>; Internet; Accessed June 2001.

The American Public Works Association is an international educational and professional association of public agencies, private sector companies, and individuals dedicated to providing high quality public works goods and services. The Resource Center of APWA includes references to articles, training materials, and websites organized by subject area.

International Road Federation. Available from: <http://www.irfnet.org>; Internet; Accessed June 2001.

The International Road Federation is a not-for-profit, non-political service organization whose purpose and continuing objective is to encourage better road and transportation systems worldwide and to help apply technology and management practices that will give maximum economic and social returns from national road investments.

National Highway Institute. Available from: <http://www.nhi.fhwa.dot.gov>; Internet; Accessed June 2001.

The Federal Highway Administration's National Highway Institute (NHI) delivers unique, high quality learning experiences by providing 550 courses per year to the transportation community. NHI also serves as a clearinghouse and provides management, leadership and direction for educational and academic programs. NHI provides industry and international outreach partnerships with other transportation organizations.

Northwestern University. Transportation Library. Available from: <http://www.library.northwestern.edu/transportation>; Internet; Accessed June 2001.

This website includes information on the Transportation Library's Online Public Access Catalog and also provides access to TRANweb (the Transportation Library's Periodical Index). Categories of the Transportation Library are listed and links are available for direct access by category.

Transportation Association of Canada. Available from: <http://www.tac-atc.ca>; Internet; Accessed June 2001.

The Transportation Association of Canada is a non-profit association of transportation stakeholders in government, private industry, and educational institutions. It is a neutral forum for gathering or exchanging ideas, information and knowledge in support of technical guidelines and best practices.

Transportation Research Board. **IDEA – Innovations Deserving Exploratory Analysis Programs: High Speed Rail, Intelligent Transportation Systems, Highway, and Transit. Annual Progress Reports.** Available from <http://www.nationalacademies.org/trb/idea>; Internet; Accessed June 2001.

IDEA programs fund investigations of promising but unproven innovations in four transportation areas including High Speed Rail IDEA, NCHRP Highway IDEA, Transit IDEA, and Transportation Safety Technology IDEA.

Transportation Research Board. National Cooperative Highway Research Program. **Progress Report: Summary of Progress Through 1988 – Special Edition (NCHRP Web**

Document 7). Available from: <http://www4.national-academies.org/trb/crp.nsf>; Internet; Accessed June 2001.

Published twice a year, distribution to NCHRP sponsors and those involved with TRB's administration of the annual research program.

Transportation Research Board. National Cooperative Highway Research Program and Transit Cooperative Research Program. **NCHRP Summary of Progress and TCRP Annual Report of Progress – Summary of Progress Through 1988 – Special Edition (NCHRP Web Document 7.** Available from: <http://www4.national-academies.org/trb/crp.nsf>; Internet; Accessed June 2001

Detailed project descriptions only are available on the following web site <http://www4.national-academies.org/trb/crp.nsf>.

Transportation Research Board. **Study for a Future Strategic Highway Research Program.** Available from: <http://www4.nationalacademies.org/trb/newshrp.nsf>; Internet; Accessed June 2001.

In 1987 Congress authorized a Strategic Highway Research Program (SHRP), which was a highly focused, \$150 million, 5-year effort designed to improve the performance of highway materials and highway maintenance practices. The SHRP program has received considerable support because it set clear goals and focused applied research, funded from the Highway Trust Fund, on solving major problems facing highway agencies and the motoring public. Now that the focus of the first SHRP effort is on implementation of results, Congress has requested that the Transportation Research Board initiate a new process of setting priorities and designing a program for another focused R&D effort.

Transportation Research Board. **TRB Publication Index.** Available from: <http://www4.nationalacademies.org/trb/onlinepubs.nsf/web/index>; Internet; Accessed

A searchable index of Transportation Research Board (TRB) publications is available on TRB's Homepage on the Internet. The TRB Publications Index contains over 21,000 annotated citations for all TRB and Strategic Highway Research Program (SHRP) publications from the mid 1970s until present. All NCHRP and TCRP publications, Special Reports, Circulars, TR News, Conference Proceedings, and Records are included. Each individual paper in the Transportation Research Records, Conference Proceedings, Circulars, and TR News is indexed.

Transportation Research Board. **TRB Research in Progress.** Available from: <http://nationalacademies.org/trb/trip>; Internet; Accessed June 2001.

Search the TRB Research in Progress Index by entering keywords or a phrase into the query boxes. The source field provides information from the organization

sponsoring the research and the organizations and individual's fields provide information on performing organizations and principal investigators of research projects.

Transportation Research Board. Available from: <http://www.nas.edu/trb>; Internet; Accessed June 2001.

The homepage of the Transportation Research Board provides general news and features and provides links to TRB Divisions, activities, programs and services.

U.S. Bureau of Transportation Statistics. **National Transportation Library.** Available from: <http://www.ntl.bts.gov>; Internet; Accessed June 2001.

The National Transportation Library is a repository of full-text materials from public and private organizations around the country. The Library is intended to facilitate the exchange of information related to transportation. The National Transportation Library website also provides a link to TRIS Online.

U.S. Bureau of Transportation Statistics. **TRIS Online.** Available from: <http://www.ntl.bts.gov/tris>; Internet; Accessed June 2001.

The Transportation Research Information Services (TRIS) Database is the world's largest and most comprehensive bibliographic resource on transportation information. TRIS is produced and maintained by the Transportation Research Board at the National Academy of Sciences. TRIS contains over a half million records of published and ongoing research on all modes and disciplines in the field of transportation.

U.S. Dept. of Transportation. **University Transportation Centers Program.** Available from: <http://educ.dot.gov/>; Internet; Accessed June 2001.

These internationally recognized centers of excellence, fully integrated within institutions of higher learning, serve as a vital source of leaders who are prepared to meet the nation's need for safe, efficient and environmentally sound movement of people and goods. Research conducted by these Centers advance U.S. technology and expertise in the many disciplines comprising transportation through the mechanisms of education, research and technology transfer.

U.S. Dept. of Transportation Library. Available from: <http://isweb.tasc.dot.gov/library/library.htm>; Internet; Accessed June 2001.

The U.S. DOT Library homepage, developed to serve the information needs of the employees and contractors of the Department of Transportation, other government agencies, and the American public at large provides general information on the Library and its resources, access to the Library's catalog and an array of digital resources.

U.S. Federal Highway Administration. **FHWA Web Sites.** Available from: <http://www.fhwa.dot.gov/fhwaweb.htm>; Internet ; Accessed June 2001.

A comprehensive site containing links to the various FHWA websites. Related transportation and highway website links are also included.

U.S. Federal Highway Administration. **Local Technical Assistance Program (LTAP) Clearinghouse.** American Public Works Association. Available from: <http://www.ltapt2.org>; Internet; Accessed June 2001.

Whether it's training, technical assistance or technology transfer (T²), the Local Technical Assistance Program (LTAP) of the Federal Highway Administration (FHWA) has the tools to suit the task. The LTAP network provides best practices and innovative technology to meet local government transportation needs. LTAP is the most direct, hands-on method FHWA and its partners have for moving innovative transportation technologies out of the lab, off the shelf and into the hands of the people who maintain our local, rural and tribal streets and roads. Sponsored in cooperation with the American Public Works Association.

U.S. Federal Highway Administration. **Turner-Fairbank Highway Research Center.** Available from: <http://www.tfsrc.gov>; Internet; Accessed June 2001.

The Turner-Fairbank Highway Research Center (TFHRC) is a federally owned and operated research facility in McLean, Virginia. TFHRC provides FHWA and the world highway community with the most advanced research and development related to new highway technologies. The research focuses on providing solutions to complex technical problems through the development of more economical, environmentally sensitive designs; more efficient, quality controlled construction practices; and more durable materials. The end result is a safer, more reliable highway transportation system.

University of California, Berkeley. Institute of Transportation Studies. California PATH (Partners for Advanced Transit and Highways) Program. **California PATH Database.** Available from: <http://www4.nationalacademies.org/trb/tris.nsf/web/path>; Internet; Accessed June 2001.

The California PATH Database provides access to the largest and most comprehensive collection of bibliographic information on Intelligent Transportation Systems (ITS). The Database, created and managed by the Institute's Harmer E. Davis Transportation Library, is accessible on the Internet through a partnership with the Transportation Research Board with its records mounted into TRIS Online.

University of California, Berkeley. Institute of Transportation Studies. **Harmer E. Davis Transportation Library.** Available from: <http://www.lib.berkeley.edu/itsl>; Internet; Accessed June 2001.

This website provides access to the University of California's union Melvyl online catalog which includes the Library's holdings. Links to the PATH Database are also included, as are links for general information regarding the Harmer E. Davis Transportation Library.

Basic References: Part G, Motor Vehicles

compiled by Lynn Matis

Massachusetts Dept. of Transportation Library

Print Sources

Asmus, T. et al. **The Automobile: A Century of Progress.** Warrendale, Pa.: Society of Automotive Engineers, 1997. 292 p.

Commemorating the 100th anniversary of the automobile industry in the United States. Subjects include: powerplants, car brakes, safety, electrical systems, and gasoline specifications. Prepared under the auspices of the SAE Historical Committee.

Brodbeck, John E. ed. **Motor Fleet Safety Manual.** Chicago, Ill.: National Safety Council, 1996. 207 p.

Revised fourth version covers current issues including compliance with Occupational Safety and Health Administration, the latest technology and safety equipment, and ongoing driver training. Contents designed to reduce and eliminate preventable accidents.

Bush, James W. and Paul Zajac (ed.). **Ward's Motor Vehicles Facts and Figures.** Southfield, Mich.: Ward's Communications, Inc. Annual.

Documents the performance and impact the United State auto industry. Statistical information on the automobile industry, including information on trucking. Includes statistics relating to Canada and Mexico.

Consumers Union of U.S. **Consumer Reports: Annual Auto Issue.** Yonkers, N.Y.: Consumers Union of U.S. Annual.

*April issue of **Consumer Reports** contains information on repair records of the various makes and models of automobiles. Offers judgements on currently offered models and pricing for new and used cars.*

Consumers Union of U.S. **Consumers Reports Buying Guide.** Yonkers, N.Y.: Consumers Union of U.S. Annual.

Section on automobiles contains previews of new models, best and worst used cars, ratings, reliability, and frequency of repairs.

Curcio, Vincent. **Chrysler: Life and Times of an Automotive Genius.** Oxford, England & New York, N.Y.: Oxford University Press, 2000. 699 p.

Biography of Walter P. Chrysler, from his beginnings as a locomotive wiper in a Kansas through his rise as the founder and executive of Chrysler Corporation. Weaves the details of his life with the economic, social, and political factors of the times.

Davis, Stacy D. **Transportation Energy Data Book.** Oak Ridge, Tenn.: Oak Ridge National Laboratory. Annual

Offers statistical data for the major modes of transportation. Includes data on automobiles, trucks, fleet vehicles, buses high occupancy vehicles lanes. Published by Oak Ridge National Laboratory (ORAL) under contract with the Department of Transportation.

Dicken, Peter. **Global Shift: Transforming the World Economy.** New York, N.Y.: Guilford Press, 1998. 3rd ed. 496 p.

Explores the economic, political, and technological processes involved in the shift toward global economy. Includes detailed analysis and case studies of the automobile industry.

Dinkel, John. **Road and Track Illustrated Automotive Dictionary.** Cambridge, Mass.: Bentley Publishers, 2000. 253 p.

Reference Source for automotive terms, with technical expertise and clear language. Includes photos and illustrations of automotive concepts. Updates 1977 edition of the same title.

Dunn, James A. **Driving Forces: The Automobile, its Enemies, and the Politics of Mobility.** Washington, D.C.: Brookings Institution Press, 1998. 230 p.

Offers the view that the automobile is not the problem, but the solution to the demands of transportation. Suggests initiatives that preserve the benefits of the automobile and that build public support for policies that will be less harmful for energy use and the environment.

Gieras, Jacek F. and Zbigniew J. Piech (ed.). **Linear Synchronous Motors: Transportation and Automation Systems.** Boca Raton, Fla.: CRC Press, 1999. 327 p.

Comprehensive treatment of all types of brushless LSMs including their construction applications. Explains the physics of hard magnetic materials, discusses permanent magnet and superconducting systems, and addresses applications in factory automation and high-speed transportation systems.

Gillespie, Thomas D. **Fundamentals of Vehicle Dynamics.** Warrendale, Pa: Society of Automotive Engineer, 1992. 495 p.

Provides a basic foundation of engineering principles in order to explain the performance of automotive vehicles. Includes sections on performance, aerodynamics, steady-state cornering, steering systems, rollovers, and tires.

Hamada, Kay (ed.). **Digest of Motor Laws.** Heathrow, Fla.: Automobile Association of America. Annual.

Summaries of laws and regulations governing the registration and operation of passenger cars in the United States, its territories, and the provinces of Canada

Hoyle, David. **Automotive Quality Systems Handbook.** Woburn, Mass.: Butterworth-Heinemann, Ltd., 2000. 578 p.

Interprets the international technical specification ISO/TS 16949. Analyzes each element, clause and requirement of this new standard. Includes differences with old standards, checklists, and suggestions.

Intelli-Choice. **The Complete Car Cost Guide.** Campbell, Calif.: Intelli-Choice. Annual.

Guide to the economic of buying and owning new automobiles. Examines complete life cycle cost for automobiles. Features graphic based charts.

Johnson, James D. **Driving America: Your Car, Your Government, Your Choice.**

Washington D.C.: American Enterprise Institute for Public Policy Research, 1997. 240 p.

Studies government policies on the issue of personal mobility afforded by privately owned automobiles. Examines the consequences of environmental policies, including global warming.

Jurgen, Ronald K. (Ed.). **Automotive Electronics Handbook.** New York, N.Y.: McGraw-Hill, 1999. 2nd ed. 1000 p.

Covers electronic equipment in automobiles such as sensors , actuators, control systems and displays and information systems. Includes sections on emerging technologies such as navigation aids and intelligent vehicle highway systems.

Kay, Jane Holtz. **Asphalt Nation: How the Automobile Took Over America, and How We Can Take It Back.** New York, N.Y.: Crown Publishers, Inc., 1997. 418 p.

Offers solutions in order to alleviate the dependence of our contemporary culture on the car. Presents how our use of land would benefit from less reliance on the car. Traces the history of the car from the Motel T to the present.

Kiencke, Uwe and Lars Nielsen. **Automotive Control Systems**. New York, N.Y.: Springer-Verlag, 2000. 412 p.

Examines engine and vehicle models for controller design. Subjects include thermodynamic engine cycles, energy management systems, vehicle-specific signal processing and vehicle control systems.

Liker, Jeffrey K. (ed.). **Becoming Lean: Inside Stories U.S. Manufacturers**. Portland, Ore.: Productivity Press, Inc., 1997. 535 p.

Provides compilations by CEOs, consultants, and plant managers of successful manufacturing companies that have implemented lean manufacturing practices. Includes case studies at different types and sizes of companies.

Monden, Yasuhiro. **Toyota Production System: An Integrated Approach to Just-in-Time** Norcross, Ga.: Engineering and Management Press, 1998. 3rd ed. 480 p.

Describes the changes that have occurred to the Toyota production system. Discusses the just-in-time manufacturing system, including computer integrated manufacturing, and a philosophy that incorporates respect for workers.

Newman, Peter and Jeffrey Kenworthy. **Sustainability and Cities: Overcoming Automobile Dependence**. Washington D.C.: Island Press, 1999. 460 p.

Argues that the automobiles and cities play a crucial role in the global agenda. Develops the theme that the land use of a city is formed by its transportation systems and that the reduction of automobile dependence will promote sustainable urban change and successful sustainable cities.

Nordhoff, Larry S. **Motor Vehicle Collision Injuries: Mechanisms, Diagnosis, and Management**. Gaithersburg, Md.: Aspen Publishers, 1996. 393 p.

Focuses on the clinical management of mild to moderate motor vehicle collision injuries. Examines international perspectives on collision injury mechanisms, diagnosis, management, and prognosis protocol. Describes legal implications and clarifies insurance policies.

Rand McNally Motor Carriers' Road Atlas. Skokie, Ill.: Rand McNally and Company. Annual.

Atlas of individual state maps and map of United States. Includes maps of major U.S. cities, U.S. National Parks and Canada. Contains mileage charts.

SAE International Congress & Exposition. **Accident Reconstruction: Technology and Animation**. Warrendale, Pa.: Society of Automotive Engineers, 1997. 412 p.

Profiles research effective in understanding motor vehicle collisions. Subjects include accident scene diagramming, determination of bumper characteristics, safety of roadside curbs and use of computer images and animations in court.

SAE International Congress & Exposition. **Design For Environmentally Safe Automotive Products and Processes.** Warrendale, Pa.: Society of Automotive Engineers, 1997. 171 p.
Analyzes environmental design issues including machining of metals, separation of end-of-life plastics, full cost accounting and uncertainties of life cycle analysis. Examines each stage of the design and development of the automobile.

SAE International Congress & Exposition. **Electric Vehicles: Driving Towards Commercialization.** Warrendale, Pa.: Society of Automotive Engineers, 1997. 700 p.
Coverage of EV development programs and collaborative battery development ventures. Addresses how the automobile industry is attempting to produce a marketable alternative to the gasoline engine car.

Schiffer, Michael B. **Taking Charge: The Electrical Automobile in America.** Warrendale, Pa.: Society of Automotive Engineers, 1994. 240 p.
Traces the history of electric automobiles in America. Discusses advances in batteries and recharging ability and as environmental solutions for clean air.

Seiffert, Ulrich. **Automobile Technology Of The Future.** Warrendale, Pa.: Society of Automotive Engineers, 1991. 251 p.
Discusses new technology in the areas of reliability, comfort, fuel economy, safety, and environmental compatibility. Subjects include the impact of legislation, the automatic / manual transmission debate, and the features of a future dashboard.

Sevigny, Maureen. **Taxing Automobile Emissions for Pollution Control.** Northampton, Mass.: Edward Elgar Publishing, 1998. 129 p.
Explores the role of an automobile emissions tax for the purpose of reducing emissions in the United States. Includes a detailed analysis of the design of the tax.

Sims, Ron and Bradford Bates. **Frontal Crash Safety Technologies For The 90's.** Warrendale, Pa.: Society of Automotive Engineers, 1991. 171 p.
Descriptions of the use of new technologies for the safety of motor vehicles. Subjects include a new crash new tester, an advanced database for the 50th percentile Hybride III dummy and the effectiveness of safety belts and airbags.

U.S. Dept. of Energy and U.S. Environmental Protection Agency. **Fuel Economy Guide.** Fairfax, Va.: National Alternative Fuels Hotline, 2001. 21 p.

Reports on fuel efficient vehicles and compares vehicles for fuel economy and annual fuel costs. Includes compressed natural gas vehicles, propane vehicles, diesel, electric, ethanol flexible-fueled vehicles and gasoline vehicles. Electronic versions of this guide are available on the Internet at www.fueleconomy.gov.

Wakefield, Ernest Henry. **History of the Electric Automobile Battery-Only Powered Cars.** Warrendale, Pa.: Society of Automotive Engineers, 1994. 541 p.

Covers the evolution of the electric automobile from 1980's to today. Includes detailed analysis of the "golden age" of electric vehicles from 1895 until 1905 and the Electric Vehicle Act of 1976.

Womack, James P. **The Machine that Changed the World The Story of Lean Production.** New York, N.Y.: HarperPerennial, 1991. 321 p.

Analysis of the shift of the automobile industry from mass production to lean production which involves teamwork, communication, and efficient use of resources. Describes the specific manufacturing techniques underlying the success of Japan and how Western industry can implement these methods.

Internet Resources - - Web Sites

Allstate Insurance Savings. **Auto Channel.** Available from: <http://autochannel.com/>; Internet; Accessed on 14 March 2001.

Features daily automotive news, special events, including radio talk shows, media library, and job resources. Industry news covers industry stock indexes and articles relating to company financial profiles.

American Association of Motor Vehicle Administrators. **American Association of Motor Vehicle Administrators (AAMVA).** Available from: <http://www.aamva.org/>; Internet; Accessed on 14 March 2001.

Web site for the American Association of Motor Vehicle Administrators. Weekly news on industry including government affairs and listing of publications. Includes information on the latest AAMVA projects and activities.

American Automobile Association. **AAA Online.** Available from: <http://www.aaa.com/>; Internet; Accessed on 14 March 2001.

American Automobile Associations' home site. Access to Route Master which gives address to address directions, and city to city directions, and detour and

construction information. Association members can make on-line travel reservations.

American Bus Association. **American Bus Association.** Available from: <http://www.buses.org/>; Internet; Accessed on 14 March 2001.

American Bus Association's home page. Features the latest industry data, safety information and top 100 events in America including information on the American Bus Marketplace.

American Trucking Association. **Truckline.** Available from: <http://www.truckline.org/>; Internet; Accessed on 14 March 2001.

Trucking guide to service and suppliers. Contains articles on legislation and current news affecting industry, environment, safety and technology.

Autoweb.com. **Autoweb.com.** Available from: <http://www.autoweb.com/>; Internet; Accessed on 14 March 2001.

Consumer automotive service. Connects consumers to member dealers. Sections on researching new and pre-owned autos, loan and insurance quotes, and loan/lease calculators.

Canada. **Transport Canada.** Available from: <http://www.tc.gc.ca/>; Internet; Accessed on 14 March 2001.

Canada's information service on transportation, available in both English and French. Contains information for each mode of transportation along with statistics. Section on Motor Carriers includes policy and project statements, truck data, truck maps, bus data, vehicle importations and vehicle recalls.

Edmunds.com, Inc. **Edmunds.com.** Available from: <http://edmunds.com/>; Internet; Accessed on 14 March 2001.

Information on new vehicles and used vehicles. Contains automotive reviews, newest road tests, safety information and payment calculators. Town Hall Section features message boards and chat events.

Kelley Blue Book. **Kelley Blue Book.** Available from: <http://www.kbb.com/>; Internet; Accessed on 14 March 2001.

Includes used car values, new car pricing, trade-in and retail value on motorcycles. Features automotive articles with advice about buying new and used cars and car previews.

KnightRidder.com. **Auto.com.** Available from: <http://www.auto.com/>; Internet; Accessed on 14 March 2001.

Features industry news, Reuters auto wire, and AP business wire. Includes car reviews and auto shows, and auto racing.

Matthew Dale Cox. **LogisticsWorld**. Available from: <http://www.logisticsworld.com/>; Internet; Accessed on 14 March 2001.

Provides world-wide web directory services and Internet advertising services for the transportation and logistic industries. Areas included automobiles, carriers, fleet management, freight, and trucks. Contains WWW Virtual Library of Trucking (<http://www.logisticsworld.com/trucking/>) which is a directory of over 10,000 truck and trucking sites.

National Crash Analysis Center. **NCAS, National Crash Analysis Center**. Available from: <http://www.ncac.gwu.edu/>; Internet; Accessed on 14 March 2001.

Home page of the FHWA/NHTSA sponsored National Crash Analysis Center at George Washington University. The Center concentrates on motor vehicle crash research. Website contains information on its film library, animation, mode, and software archives, and papers and publications. Also contains information on its ongoing research.

U.S. Federal Highway Administration. **Operations: A FHWA Core Business Unit**. Available from: <http://www.ops.fhwa.dot.gov/>; Internet; Accessed on 14 March 2001.

Includes travel management, transportation operation, freight management, and ITS. Freight Management section includes outreach events and information on operation and safety programs, and state of the art/practice on freight finance and freight productivity performance measures.

U.S. Federal Highway Administration. Office of Highway Policy Information. **Office of Highway Policy Information**. Available from: <http://www.fhwa.dot.gov/ohim/>; Internet; Accessed on 14 March 2001.

Repository of highway information and statistics. Sections include highway performance monitoring system, nationwide personal transportation survey, and traffic volume and truck weights. Links to other FHWA web sites, transportation and highway related web sites, state transportation web sites and financial management web sites.

U.S.. Federal Motor Carrier Safety Administration. **Federal Motor Carrier Safety Administration**. Available from: <http://www.fmca.dot.gov/>; Internet; Accessed on 14 March 2001.

Federal Motor Carrier Safety Administration's home page features latest rules and regulations, safety programs, and facts and features. Allows users to download rulemaking affecting the motor carrier industry. Links to State DOTs, government sites, publications, and associations.

U.S. National Highway Traffic Safety Administration. **National Highway Traffic Safety Administration.** Available from: <http://www.nhtsa.dot.gov/>; Internet; Accessed on 14 March 2001.

Provides information on highway and motor vehicle safety and technical assistance, including child passenger safety, child seat inspections, school bus safety and disability resources. Site also contains the DOT Auto Safety Hotline (<http://www.nhtsa.dot.gov/hotline>) which provides information on product defects and on the Buying a Safer Car Program (<http://www.nhtsa.dot.gov/cars/testing/.ncap>) which provides ratings of vehicle safety performance. Includes a catalog for ordering publications on-line.

Basic References: Part H, Traffic Engineering

compiled by Janet Bix

Ohio Dept. of Transportation Library

Print Sources

American Association of State Highway and Transportation Officials. **An Informational Guide for Roadway Lighting.** Washington, D.C.: The Association, 1984. 36 p.

Contains information for the lighting of freeways in one section and for the lighting of streets and highways other than controlled access facilities as another section. Also contains a section on lighting of tunnels and underpasses in addition to sections on rest areas, signs, and maintenance. Ordering information available at publisher's website: <http://www.transportation.org>

American Association of State Highway and Transportation Officials. **Policy on Geometric Design of Highways and Streets, 1994.** Washington, D.C.: The Association, 1995. 1 vol.

Contains design practices in universal use as the standard for highway geometric design. First metric edition. Supersedes the 1990 Policy of Geometric Design of Highways and Streets (AASHTO Green Book) and its addendum, Interim Select Metric Values for Geometric Design. Also available in CD-ROM. Ordering information available at publisher's website: <http://www.transportation.org>

American Association of State Highway and Transportation Officials. **Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.** Washington, D.C.: The Association, 2001. 4th ed. 1 vol.

Replaces the 1994 edition and its interim revisions. Discusses design criteria including loads, methods of analysis, design, and general design features.

When publication is available (late spring approximately) information will be located at publisher's website: <http://www.transportation.org>

Bilon, Werner (ed.) **Fourth International Symposium on Highway Capacity: Proceedings, June 27-July 1, 2000, Maui, Hawaii.** Washington, D.C.: Transportation Research Board, 2000. 516p. (Transportation Research Circular no. E-C018).

Individual papers from the conference are available from the Transportation Research Board website:

<http://www.nationalacademies.org/trb/publications/ec018/>

Garber, Nicholas J. and Lester A. Hoel. **Traffic and Highway Engineering.** Pacific Grove, Calif.: PWS Publications, 1999. 2nd ed. (Rev. print.). 118p.

Reflects TEA-21 legislation and transportation statistics. Ordering information available at publisher's website: <http://e-catalog.thomsonlearning.com/112/>

Great Britain. Highways Agency. **Design Manual for Roads and Bridges. Vol. 8: Traffic Signs and Lighting.** London, Eng.: The Stationery Office, 1994.

Numerous updated parts and sections are available for purchase at the Stationery Office website: <http://www.tsonline.co.uk/portal.asp>

Great Britain. Highways Agency. **Design Manual for Roads and Bridges Vol. 9 Network - Traffic Control and Communications.** London, Eng.: The Stationery Office, 1992.

Numerous updated parts and sections are available for purchase at the Stationery Office website: <http://www.tsonline.co.uk/portal.asp>

Homburger, Wolfgang S. **Fundamentals of Traffic Engineering.** Berkeley, Calif.: Institute of Transportation Studies, University of California, 2001. 15th edition. 384p.

Introduction to the field of traffic engineering for professionals who are about to be assigned traffic engineering tasks. Ordering information available at publisher's website: <http://www.its.berkeley.edu/publications/fundamentals.html>

Illuminating Engineering Society of North America. **American National Standard Practice for Roadway Lighting.** New York, N.Y.: The Society, 2000. 61p. (RP-8-00).

Recommended practice provides the design basis for lighting roadways, adjacent bikeways, and pedestrian ways. Ordering information available at publisher's website: <http://www.iesna.org>

Illuminating Engineering Society of North America. **American National Standard Practice for Tunnel Lighting.** New York, N.Y.: The Society, 1996. 31 p. (RP-22-96).

Recommended practice assists engineers and designers in determining lighting needs, recommending solutions, and evaluating resulting visibility at

tunnel approaches and interiors. Ordering information available at publisher's website: <http://www.iesna.org>

Illuminating Engineering Society of North America. **IESNA Guide for Photometric Measurement of Roadway Lighting Installations.** New York, N.Y.: The Society, 1999. 3p. (IES LM-50-99).

Revision of 1985 ed. Ordering information available at publisher's website: <http://www.iesna.org>

Illuminating Engineering Society of North America. **IESNA Guide for Photometric Measurements of Roadway Sign Installations.** New York, New York: The Society, 1998. 10 p. (LM-52-98).

Ordering information available at publisher's website: <http://www.iesna.org>

Institute of Transportation Engineers. **Traffic Signal Installation and Maintenance Manual.** Washington, D.C.: The Institute, 1989. 225 p.

Not available in the current Institute of Transportation Engineers publications catalog.

Institute of Transportation Engineers. **Trip Generation: Trip Generation Rates, Plots, and Equations.** Washington, D.C.: The Institute, 1997. 6th ed. 3 vols.

Volumes 1 and 2 contain land use descriptions and data plots and a user's guide. A significant amount of new data has been collected since the publication of the fifth edition. Data from more than 750 new studies have been added to the existing database for a combined total of more than 3,750 individual trip generation studies. Ordering information available at Institute of Transportation Engineers website: <http://www.ite.org>

Institute of Transportation engineers. **Traffic Signing Handbook.** Washington, D.C.: The Institute, 1997. 1 vol.

Contains information on types of signs, existing standards, planning and engineering studies, sign design, materials fabrication, installation, maintenance, vandalism control, unique urban considerations, sign shop organization, inspection and inventory systems. Ordering information available at publisher's website: <http://www.ite.org>

International Municipal Signal Association. **Official Wire and Cable Specifications.** Newark, N.Y.: The Association, 1997. (Rev. ed.) 1 vol.

Contains the standard for municipal wires and cables which have been adopted by most cities and states throughout the U.S., Canada and other

nations. Also available on website are study guides and manuals related to work zone traffic control, lighting, signs, signals, and markings.

<http://www.imsasafety.org>

Kell, James J. and Iris J. Fullerton. **Manual of Traffic Signal Design.** Englewood Cliffs, N.Y.: Prentice Hall, 1991. 2nd ed. 245p.

Covers traffic signal fundamentals. Offers wiring and cabling specifics, guides readers through preparing contractual documents, and explains construction supervision. Ordering information available at Institute of Transportation Engineers website: <http://www.ite.org>

Kraft, Walter H. **Traffic Signal Control Systems Maintenance Management Practices.** Washington, D.C.: Transportation Research Board, 1997. 63p. (NCHRP Synthesis 245).

Ordering information available from Transportation Research Board website: <http://www.nationalacademies.org/trb/bookstore/>

Lay, M.G. **Handbook of Road Technology: Volume 2, Traffic and Transport.** Amsterdam, Netherlands: Gordon and Breach, 1999. 3rd ed. 728 p.

Selected contents include traffic flow and capacity speeds, traffic signs, pavement markings, traffic signals, and lighting. Ordering information at publisher's website: <http://www.gbhap.com/physical.htm>

May, Adolf. D. **Traffic Flow Fundamentals.** Englewood Cliffs, N.J.: Prentice Hall, 1990. 464 p.

Addresses the fundamental characteristics of traffic flow, their relationships, and techniques for analysis. Initially examines traffic flow on a microscopic and macroscopic level, then provides a framework for analytical techniques. Ordering information available at Institute of Transportation Engineers website: <http://www.ite.org>

National Committee on Uniform Traffic Control. **Manual of Uniform Traffic Control Devices for Canada.** Ottawa, Ont.: Transportation Association of Canada., 1998. (4th ed.) 1 vol.

Provides optimum standards and preferred methods in the design dimensions and applications of devices. Includes 84-page 2000 update. Ordering information available at publisher's website: <https://mediant.magma.ca/tacatc/resource/bookstre.cfm>

National Committee on Uniform Traffic Control. **Manual of Uniform Traffic Control Devices for Canada: Sign Pattern Manual.** Ottawa, Ont.. Transportation Association of Canada, 1993. 200 p.

A companion volume to the Uniform Traffic Control Devices for Canada, it provides users and manufacturers with accurate pattern to be used when producing traffic control signs. Ordering information available at publisher's website: <https://mediant.magma.ca/tacatc/resource/bookstre.cfm>

National Electrical Manufacturers Association. **Traffic Controller Assemblies with NTCIP Requirements.** Rosslyn, Va.: The Association, 1998. 1 vol. (TS2-1998).

Defines a performance-oriented standard for traffic signaling equipment used to facilitate and expedite safe movement of vehicular and pedestrian traffic.

Also includes requirements for equipment compliance with National Transportation Communications Protocol (NTCIP) standards when installed. Ordering information available at publisher's website: <http://www.nema.org>

Newell, Gordon F. **Theory of Highway Traffic Signals.** Berkeley, Calif.: Institute of Transportation Studies, 1989. 442 p.

Presents a scientific approach to the theory of highway traffic signal control.

Ordering information available at publisher's website: <http://www.its.berkeley.edu/publications/>

O'Flaherty, Coleman. A. (ed.) **Transport Planning and Traffic Engineering.** London, Eng.: Arnold; New York, N.Y.: Wiley, 1997. 544 p.

A successor to the first volume of O'Flaherty's Highways. The content has been expanded and updated. Arnold titles in engineering and mathematics are now published by Butterworth-Heinemann. Ordering information available at publisher's website: <http://www.bh.com/> or <http://www.bhusa.com/listing/us/>

Pline, James L. (ed.) **Traffic Engineering Handbook.** Washington, D. C. : Institute of Transportation Engineers, 1999. (5th ed.) 704 p.

New edition provides a current, updated source of information for people entering the practice of traffic engineering and for those already practicing. Each chapter was written by notable and experienced authors, and reviewed and edited by a panel of traffic engineering experts. Ordering information available at publisher's website: <http://www.ite.org>

Robertson, H. Douglas (ed.) **Manual of Transportation Engineering Studies.** Englewood Cliffs, N.J.: Prentice-Hall, 1994. 514 p.

Shows how to conduct several transportation engineering studies in the field. Discusses experimental design, survey design, statistical analyses, data presentation techniques, and report writing concepts. Provides guidelines for both oral and written presentation of study results. Includes useful forms for

various transportation studies. Ordering information available at Institute of Transportation Engineers website: <http://www.ite.org>

Roess, Roger P., William R. McShane, and Elena S. Prassas. **Traffic Engineering**. Upper Saddle River, N.J.: Prentice Hall, 1998. (2nd ed.) 714 p.

In-depth coverage of traffic engineering, including design construction operation, maintenance and system optimization. Ordering information available at Prentice Hall website: <http://vig.prenhall.com/>

Salter, Richard J. and N. B. Hounsell. **Highway Traffic Analysis and Design**. London, Eng.: Macmillan, 1996. (3rd ed.) 392 p.

Text deals with key elements of current traffic engineering theory and practice. Part one, on traffic surveys and prediction, provides introduction to transportation planning methodologies and models. Part two, on analysis and design for highway traffic, covers descriptors of traffic behaviour, such as flow, speed, density and capacity and their interrelationships. For an Internet version see: <http://www.britishcouncil.org/virtual/ise/science/sci29.htm>

Sessions, Gordon M. **Traffic Devices: Historical Aspects Thereof**. Washington, D.C. : Institute of Traffic Engineers, 1971. 149 p.

Traces international development of all types of traffic control devices from 250 B.C. to 1970. Ordering information available at the Institute of Transportation Engineers website: <http://www.ite.org>

Transportation Association of Canada. **Geometric Design Guide for Canadian Roads**. Ottawa, Ont.: The Association, 1999. 2 vols.

Guide updates, combines and replaces the 1986 Geometric Design Guide and the Urban Supplement to the Geometric Design Guide for Canadian Roads (1995). Expanded areas covering design consistency, roundabouts, rumble strips, truck escape ramps, design vehicle dimensions, retrofit design, aesthetics, ramp design speed for trucks and pedestrian accommodation. <https://mediant.magma.ca/tacatc/resource/bookstre.cfm>

Transportation Research Board. **Highway Capacity Manual**. Washington, D.C.: The Board, 2000, 1 vol. (Special Report no. 209).

Highway Capacity Manual 2000 represents a significant revision and expansion of material provided in previous editions. Available in U.S. customary units, and metric units, in paper and CD-ROM. Ordering information available at Transportation Research Board website: <http://www.nationalacademies.org/trb/bookstore/>

Transportation Research Board. **Advanced Traffic Management Systems and Automated Highway Systems 2000**. Washington, D.C.: The Board, 2000. 161 p. (Transportation Research Record no. 1727).

*Ordering information available at Transportation Research Board website:
<http://www.nationalacademies.org/trb/bookstore/>*

Transportation Research Board. **Traffic Control Devices, Visibility, and Rail-Highway Grade Crossings 2000**. Washington, D.C.: The Board, 2000. 82 p. (Transportation Research Record no. 1708).

*Ordering information available from Transportation Research Board website:
<http://www.nationalacademies.org/trb/bookstore/>*

Transportation Research Board. **Traffic Flow Theory and Highway Capacity 2000**. Washington, D.C.: The Board, 2000. 245 p. (Transportation Research Record no. 1710).

*Ordering information available from Transportation Research Board website:
<http://www.nationalacademies.org/trb/bookstore/>*

U.S. Federal Highway Administration. **Manual on Uniform Traffic Control Devices**. Washington, D.C.: U.S. Government Printing Office, 2000. 1 vol.

First full-scale revision since 1978. Contains national design, application, placement standards, and guidance for all traffic control devices such as sign, signals and pavement markings. The MUTCD is available online at <http://mutcd.fhwa.dot.gov/>. Bound copies of the manual will be available for purchase in spring 2001. The Government Printing Office (<http://bookstore.gpo.gov/>) and major transportation and public works organizations will sell the manual in bound and CD-ROM versions.

U.S. Federal Highway Administration. **Standard Highway Signs**. Washington, D.C.: U.S. Government Printing Office, 1979. Rev.2., 1 vol.

Revisions are published periodically and are available as a subscription service from the Government Printing Office: <http://bookstore.gpo.gov/> According to FHWA, an electronic version of this publication will be available in full-text via the Internet sometime in 2002.

U.S. Federal Highway Administration. **Traffic Control Systems Handbook**. Washington, D.C.: The Administration, 1996. 684 p. (FHWA-SA-95-032).

Updates the 1985 edition (FHWA IP-85-11) and broadens scope to include ITS technology and concepts. Recommends decision-making processes in selection, implementation, and operations of a traffic control system and describes ITS plans and programs. An electronic version is available at: <http://www.ota.fhwa.dot.gov/tech/traffic/ap66.html>

Internet Resources -- Websites

National Highway Institute. Available from: <http://www.nhi.fhwa.dot.gov/coursece.html>; Internet; Accessed in January 2001.

Website of National Highway Institute. Specifically of interest in course catalog is course category called Design and Traffic Operations. Course schedules included.

Basic References: Part I, Traffic Safety

compiled by Robert Sweet

University of Michigan Transportation Research Institute

Print Sources

American Automobile Association. **Digest of Motor Laws.** Heathrow, Fla.: The Association. Annual. 1933-

American Association of State Highway and Transportation Officials. **AASHTO Strategic Highway Safety Plan: A Comprehensive Plan to Substantially Reduce Vehicle-Related Fatalities and Injuries on the Nation's Highways.** Washington, D.C.: The Association, 1998. 62 p.

Also available on the Internet at: <http://safetyplan.tamu.edu>

U.S. National Highway Traffic Safety Administration. **Digest of State Alcohol-Highway Safety Related Legislation.** Washington, D.C.: The Administration. Annual. 1983-
Originally issued on an irregular basis; currently issued annually.

U.S. National Highway Traffic Safety Administration. **National Highway Traffic Safety Administration Strategic Plan.** Washington, D.C.: The Administration, 1994. 28 p.

U.S. National Highway Traffic Safety Administration. **Summary of State Speed Laws.** Washington, D.C.: The Administration. Annual. 1997-

Latest (2000) also available at:

<http://www.nhtsa.dot.gov/people/injury/enforce/stlaw2000/index.htm>

U.S. National Highway Traffic Safety Administration. **Traffic Safety Facts [year]: A Compilation of Motor Vehicle Crash Data from the Fatality Analysis Reporting System and the General Estimates System.** Washington, D.C.: The Administration. Annual. 1997-

*Latest also available on the Internet at:
<http://www.nhtsa.dot.gov/people/ncsa/tsf1999.pdf>*

University of Michigan Transportation Research Institute. Center for National Truck Statistics. **Trucks Involved in Fatal Accidents**. Ann Arbor, Mich.: The Institute. Annual. 1989-

Internet Resources – Websites

American Driver and Traffic Safety Education Association. Available from: <http://adtsea.iup.edu>; Internet; Accessed on 27 February 2001.

American Traffic Safety Services Association. **The Safety Net**. Available from: <http://www.atssa.com>; Internet; Accessed on 27 February 2001.

Australian Transport Safety Bureau. **Road Safety**. Available from: <http://www.atsb.gov.au/road/indx/index.cfm>; Internet; Accessed on 27 February 2001.

Canada Safety Council. Available from: <http://www.safety-council.org/>; Internet; Accessed on 28 February 2001.

Hendriks, Ron. **TrafficLinq**. Available from: <http://www.trafficlinq.com>; Internet; Accessed on 27 February 2001.

Institut National de Recherche sur les Transports et Leurs Sécurité (INRETS). Available from: <http://www.inrets.fr/index.e.html>; Internet; Accessed on 29 March 2001.
INRETS is the French National Institute for Transport & Safety Research.

Liikenneturva. Available from: <http://www.liikenneturva.fi/english/central.htm>; Internet; Access on 27 February 2001.
Liikenneturva = the Central Organization for Traffic Safety in Finland. Many of the materials on its website are available in English.

The Network of Employers for Traffic Safety. Available from: <http://www.trafficsafety.org>; Internet; Accessed on 27 February 2001.

Organization for Economic Cooperation and Development. **International Road Traffic and Accident Database**. Available from: <http://www.bast.de/htdocs/fachthemen/irtad>; Internet Accessed on 27 February 2001.

PDE Publications, Inc. **Drivers.com**. Available from: <http://www.drivers.com>; Internet; Accessed on 28 February 2001.

Prévention Routière Internationale. Available from: <http://www.restena.lu/pri/index1.htm>; Internet; Accessed on 28 February 2001.

Prévention Routière Internationale is the International Road Safety Organization.

SafetyBeltSafe U.S.A. **Safe Ride Help Online.** Available from: <http://www.carseat.org>; Internet; Accessed on 28 February 2001.

SWOV Institute for Road Safety Research. Available from: <http://www.swov.nl>; Internet; Accessed on 27 February 2001.

SWOV is based in the Netherlands.

Traffic Injury Research Foundation. Available from: <http://www.trafficinjuryresearch.com/index.cfm>; Internet; Accessed on 28 February 2001.

U.S. Federal Highway Administration. **Work Zone Safety Information Clearinghouse.** Available from: <http://wzsafety.tamu.edu>; Internet; Accessed on 28 February 2001.

U.S. National Highway Traffic Safety Administration. Available from: <http://www.nhtsa.dot.gov>; Internet; Accessed on 27 February 2001.

II. Statistical Sources

compiled by Mary Geary
Northwestern University Transportation Library

Print Sources:

Automotive News Market Data Book. Detroit, Mich.: Crain Communications, Inc. Annual. *Includes data on the automotive industry broken down by global, North American and United States: production, sales, U.S. registrations, prices, dealers, suppliers and directories of U.S. automakers and national auto associations.*

Campbell, Kenneth et al. **Exposure Data Sources Catalog.** McLean, Va.: Federal Highway Administration, 1996. 98 p. *Includes U.S. traffic statistics relative to road design and safety measures.*

Davis, Stacy C. **Transportation Energy Data Book.** Oak Ridge, Tenn.: Oak Ridge National Laboratory, 2000. 20th ed. 354 p. <http://www-cta.ornl.gov/publications/tedb.html>. *United States and international, intermodal statistics including transportation energy characteristics relative to: highways, personal travel, alternative fuels and emissions.*

Directory of Canadian Transportation Data. Ottawa, Ont.: Transportation Association of Canada. Annual.

First published in 1998; a listing of Canadian, intermodal transportation statistics and data sources.

Highways in Canada. Ottawa, Ont.: Transportation Association of Canada. Annual.

A digest of traffic and highway information from the Transport Canada databases.

Hu, Patricia S. and Jennifer R. Young. **Summary of Travel Trends: 1995 Nationwide Transportation Survey.** Washington, D.C.: Federal Highway Administration, 1999. 54 p.

http://www-a.ornl.gov/npts/1995/Doc/trends_report.pdf, and at:

<http://www.bts.gov/ntda/npts/search.html>.

Summary of the exhaustive, census based transportation survey which includes detailed tables on demographics, trip descriptions, travel trends, road usage, travel times and vehicle usage & occupancy.

Insurance Institute for Highway Safety. **Facts.** Arlington, Va: The Institute. Annual.

http://www.highwaysafety.org/safety_facts/safety.htm.

Includes statistics and data on: pedestrians, airbags, alcohol/drugs, gender, roadside hazards, bicycles, large trucks, speed, bumpers, motorcycles, teenagers children, passenger vehicles, and state traffic safety laws; entries on fatalities are both national and by state. The online version, in addition to all of the above, addresses: aftermarket parts, daytime running lights, red light cameras, antilock brakes, head restraints, safety belt use and urban crashes.

International Road Federation. **World Road Statistics.** Geneva, Switzerland and Washington, D.C.: The Federation. Annual.

Reportage is supposed to be for five preceding years; however contributing nations are not uniformly covered. Includes listings by continent, region and nation, addressing: road networks, production and export of motor vehicles, registrations and imports, vehicles in use, road traffic, multimodal traffic comparisons, motor fuels, road accidents, rates and tax assessments, tax receipts and road expenditures. Figures are rounded off.

International Road Transport Union. **World Transport Statistics.** Geneva, Switzerland: The Union, 1996. 6th ed. 535 p.

Covering 1985-1994. Addresses intermodal transport for 178 nations of the world, including road networks and motor vehicles.

- National Safety Council. **Injury Facts, 2000 Edition.** Itasca, Ill.: The Council. Annual. *Includes information on U.S. traffic accidents, addressing: type of motor vehicle, type of accident, demographics, costs, state legislation, alcohol, occupant protection, hour & day-of-week incidence.*
- National Safety Council. **International Accident Facts.** Itasca, Ill.: The Council. Annual. *Includes statistics on death rates by motor vehicles, by age groups and per miles, for a limited number of countries*
- North American Transportation in Figures.** Washington, D.C.: Bureau of Transportation Statistics, 2000. English ed. 390 p. <http://www.census.gov/econ/www/natf/natf.html>. *Comprehensive, intermodal transportation statistics for the United States, Canada and Mexico, covering data from 1990, 1995 and 1996.*
- North American Transportation Highlights.** Washington, D.C.: Bureau of Transportation Statistics. <http://www.bts.gov/programs/itt/nats/pdf/NAHighli.pdf> *Includes only the 1996 statistics from North American Transportation in Figures.*
- Pugliese, Tony. **Global Vehicle Production Trends: A Survey of Manufacturers, Model Output Tariffs and Trading Conditions.** London, Eng.: Economist Intelligence Unit, 1996. 1 folded page. *A brief report of international statistics addressing market trends for the automotive industry.*
- Traffic Safety Facts.** Washington, D.C.: National Highway Traffic Safety Administration. Annual. <http://www.nhtsa.dot.gov/people/ncsa/tsf1999.pdf>. *A comprehensive report on U.S. traffic safety, including types of vehicles, demographics, pedestrians, alcohol/drug usage, types of restraints, costs, times, locations.*
- United Nations. **Statistics of Road Traffic Accidents in Europe and North America.** New York, N.Y.: United Nations Publications. Annual. *Statistics for road traffic accidents involving personal injury are reported for the United States, Canada, Israel and selected European countries*
- U.S. Bureau of Transportation Statistics. **Directory of Transportation Data Sources.** Washington, D.C.: The Bureau. Annual (1993 & 1996). *Comprehensive directory of transportation statistical resources, listed by U.S., Federal agency, U.S. state agency, Canadian and Mexican governmental agencies and major U.S. private agencies.*

U.S. Bureau of Transportation Statistics. **Transportation Statistics Annual Report.** Washington, D.C.: The Bureau. Annual. <http://www.bts.gov/programs/transtu/tsar/tsar.html>.
Exhaustive report of U.S. transportation data and statistics, covering all modalities and including: roadway extent, condition, use, performance, economy,

U.S. Census Bureau. **Statistical Abstract of the United States.** Washington, D.C.: G.P.O. Annual. <http://www.census.gov/prod/www/statistical-abstract-us.html>.
First published in 1878. The modern format covers a wide range of domestic, intermodal transportation, divided between land transport and air & water transport. Land transport includes: urban and rural highway mileage, federal-aid highway systems, functional systems, regulatory bodies, motor carriers, fuel consumption, cost indices, freight and the automotive industry. Selected statistics available on foreign transportation systems.

U.S. Federal Highway Administration. **Highway Statistics.** Washington, D.C.: G.P.O. Annual. <http://www.fhwa.dot.gov/ohim/ohimstat.htm>.
Includes U.S. statistics on motor fuel; motor vehicles; driver licensing; highway finance; roadway extent, characteristics and performance; some basic statistics for selected foreign countries. The online version includes the current National Personal Travel Survey safety, energy and environment

U.S. Federal Highway Administration. **Highway Statistics Summary to 1995.** Washington, D.C.: G.P.O., 1997. 1 vol.
<http://www.fhwa.dot.gov/ohim/summary95/index.html>.
An historical compilation encompassing the United States, Puerto Rico and the U.S. Territories, addressing: motor fuel; motor vehicles; driver licensing; highway finance; roadway extent, characteristics and performance and traffic fatalities. Some of the tables extend as far back as 1900.

U.S. Federal Highway Administration. **Our Nation's Highways.** Washington, D.C.: G.P.O. Annual. <http://www.fhwa.dot.gov/ohim>.
A summary of the information found in Highway Statistics, with only selected state and urban area data.

U.S. National Highway Traffic Safety Administration. **Traffic Safety Facts: A Compilation of Motor Vehicle Crash Data from the Fatality Analysis Reporting System and the General Estimates System.** Washington, D.C.: The Administration. Annual.
Statistics available on U.S. accident trends, types of crashes, vehicles involved, demographics; national listings, and by state.

Ward's Automotive Yearbook. Southfield, Mich.: Ward's Communication. Annual.

First published in 1938. International coverage of the automotive industry with emphasis on the U.S., including statistics on: the industry by continent and country, engines & drivetrains, electronics, dealers, vehicle production, retail sales, registrations, U.S. marketing data, vehicle specifications & factory installations.

Ward's Motor Vehicle Facts & Figures, 2000: Documenting the Performance and Impact of the U.S. Auto Industry. Southfield, Mich.: Ward's Communications. Annual. *Includes statistics on U.S. production/factory sales, retail sales, registrations, automotive trade, materials, ownership, transportation expenditures, travel trends, automotive businesses, environment/regulations and traffic fatalities. Includes some figures for Canada and Mexico*

Wilson, Rosalyn A. **Transportation in America: Statistical Analysis of Transportation in the United States, Historical Compendium 1939-1995.** Lansdowne, Va.: Eno Transportation Foundation, Inc., 1997. 70 p. *Historical, intermodal U.S. transportation statistics, including traffic accidents, passenger vehicles, trucks, fuel consumption, mileage and demographics.*

The World Almanac and Book of Facts. New York: Newspaper Enterprise Association. Annual. *First published in 1868, the modern format includes international, intermodal statistics on a wide variety of transportation matters. Online versions are available through OCLC and Academic Universe, for subscribers.*

World Motor Vehicle Data. Detroit, Mich.: Motor Vehicle Manufacturers Association of the United States. Annual. *Listings by continent, region and by nation; includes statistics on vehicle production, exports, imports, registrations and sales. Time covered varies by topic; some statistics go back to late 1940s. Ceased publication in 1998.*

Internet Resources

European Conference of Ministers of Transport. **Short Term Trends Survey.** Available from: <http://www.oecd.org/cem/>; Internet; Accessed on 18 February 2001. *Statistics covering most European countries, including: roads, vehicles, mileage, etc.*

Highway Loss Data Institute. **Collision and Theft Losses by Make and Model.** Available from: http://www.hwysafety.org/vehicle_ratings/ictl/ictl.htm; Internet; Accessed on 18 February 2001.

U.S. motor vehicle statistics covering injury, collision and theft, organized by type of vehicle.

Monash University. **Comparison of International Road Fatality Rates.** Available from: <http://www.general.monash.edu.au/muarc/fatals/fatals.htm>; Internet; Accessed on 18 February 2001.

Fatality rates compared, covering Australia, Canada, Germany, Japan, New Zealand, Sweden, United Kingdom and U.S.

Statistics Canada. Transportation Statistics. Available from: <http://www.statcan.ca>; Internet; Accessed on 18 February 2001.

Some free, statistical databases covering vehicle registrations, sales, motor carriers, taxi and limo services, selected demographics. Fee based, customized searches available online.

Transport Canada. Transportation Modes: Roads. Available from: <http://www.tc.gc.ca/en/modes.htm>; Internet; Accessed on 18 February 2001.

Canadian government statistics including road networks, usage, vehicles, drivers, fuel sales, car costs, border crossings, international comparisons and commercial motor carriers.

United Nations Economic Commission for Europe. **1997 ECE Road Accident Statistics.** Available from: <http://www.unece.org/trans/roadsafe/rsras.htm>; Internet; Accessed on 18 February 2001.

Statistics covering ECE countries, including traffic deaths and injuries, listed by country and age group.

U.S. Census Bureau. **Transportation.** Available from: <http://www.census.gov/prod/www/abs/transportor.html>; Internet; Accessed on 18 February 2001.

1992 and 1997 Economic Census for Transportation statistics, including: North American Transportation in Figures; Commodity Flow Survey; Vehicle Inventory and Use Survey; transportation/employment statistics and geographic information.

U.S. Bureau of Transportation Statistics. **Journal of Transportation Statistics.** Available from: http://www.bts.gov/jts/V3N1/vol3_n1_toc.html; Internet; Accessed on 18 February 2001.

First published in 1998, a full text, online journal with statistics on various transportation topics, indexed.

U.S. Dept. of State. **Road Safety Overseas.** Available from:
http://travel.state.gov/road_safety.html#intl; Internet; Accessed on 18 February 2001.

Comprehensive listing of international road safety resources including the statistical databases: Organization for Economic Cooperation & Development; International Road Traffic & Accident Report; U.N. Economic Commission for Europe; EU Community Road Accident Database and the Monash University (Australia) Comparison of International Road Fatality Rates.

U.S. Federal Highway Administration. **1999 Status of the Nation's Surface Transportation: Conditions and Performance Report.** Available from:
<http://www.fhwa.dot.gov/policy/1999cpr/report.htm>; Internet; Accessed 18 February 2001.

Includes statistics on personal mobility, system and use characteristics, road conditions, operational performance, safety and highway & bridge finance.

U.S. Federal Highway Administration. **National Bridge Inventory.** Available from:
<http://www.fhwa.dot.gov/bridge/britab.htm>; Internet; Accessed on 18 February 2001.

Statistics on deficient bridges, by state and highway system, 1997-1999.

U.S. Federal Motor Carrier Safety Administration. **Data, Analysis and Statistics.** Available from: <http://www.fmcsa.dot.gov/factsfigs/mchsstats.htm>; Internet; Accessed on 18 February 2001.

Includes Motor Carrier Safety Progress Report, Large Truck Crash Profile, Fact Sheets for 1998 and 1999.

U.S. National Highway Traffic Safety Administration. **Fatal Accident Reporting System.** Available from: <http://www.nhtsa.dot.gov/people/ncsa/fars.html>; Internet: Accessed on 18 February 2001.

Exhaustive online statistical databases for information on U. S. traffic fatalities and injuries updated monthly with a final report being made each Memorial Day.

U.S. Office of Highway Policy Information. **Traffic Volume and Truck Weight.** Available from: <http://www.fhwa.dot.gov/ohim/tvtw/tvtwpage.htm>; Internet; Accessed on 18 February 2001.

Covers twenty-five different U.S. reports, including commodity flow survey, truck inventory and use survey & traffic volume trends.

III. Directories

compiled by Daniel C. Krummes
Institute of Transportation Studies
University of California, Berkeley

American Association of Engineering Societies. **Who's Who In Engineering.** Washington, D.C.: The Association. Irregular.

Latest issued is the 9th edition (1995). Provides information on American engineers as well as American engineering societies.

American Association of State Highway and Transportation Officials. **Transportation Officials & Engineers Directory.** Washington, D.C.: The Association. Annual.

Arranged alphabetically by state, and then by federal agency and finally by organization.

Cushman, Robert F. and George L. Blick. (eds.). **Directory of Construction Industry Consultants.** New York, N.Y.: Wiley Law Publications, 1991. 408 p.

This directory of consulting engineers includes indexes.

Dresley, Susan C. **Directory of Transportation Libraries and Information Centers in North America.** [S.l.]: Transportation Division, Special Libraries Association, 1998. 7th ed.

Available at: <http://ntl.bts.gov/tldir/index.html>; Internet; Accessed 20 March 2001.

New editions issued irregularly. While earlier editions were issued in print, this latest edition is available only on the Internet at a site hosted by the Bureau of Transportation Statistics.

International Tunnelling Directory. London, Eng.: Miller Freeman. Annual.

*Issued under this title beginning in 1998; continues **Tunnelling Directory**. An international yearbook of consultants and companies engaged in Tunnelling and subsurface construction.*

Minnesota Dept. of Transportation. Information Services Center. **Directory of State and Transportation Department Libraries.** St. Paul, Minn.: The Center, 1991. 7 p.

Prepared in cooperation with the Michigan Dept. of Transportation Resource Center.

National Association of County Engineers. **Membership Directory.** Washington, D.C.: The Association. Annual.

Provides information on the Association as well as a listing of all members, including corporate and institutional members.

Transportation Research Board. **Directory.** Washington, D.C.: The Board. Annual.

*Title varies. Includes organizational information on TRB and its constituent committees. Committee membership directory is also included. This has recently ceased being a print publication and now is only available on the Internet by somewhat circuitously navigating through TRB's website. The committee **Directory** site is currently (3/01) available at: http://www4.nationalacademies.org/trb/directory.nsf/web/dir_committee_details?OpenDocument As the full URL may change in the future, it is perhaps easiest to access it by going to TRB's homepage (<http://www.trb.org>) and then linking to the "Committee" section listed on the page.*

Transportation Research Board. Committee on Environmental Analysis in Transportation, Task Force on Waste Management in Transportation. **Directory of State Transportation Agency Officials**. Washington, D.C.: The Committee, 1997. 66 p.

U.S. Federal Highway Administration. Turner-Fairbank Highway Research Center. **RD&T Organizational Directory**. McLean, Va.: The Center, 2001. 27 p.

*Prepared by the FHWA's Office of Research, Development and Technology. Earlier editions entitled **Researcher's Directory**. Includes contact information for Turner-Fairbank highway researchers with information on their various fields of expertise.*

Women's Transportation Seminar. **Membership Directory / Directory of W/M/DBE Firms**. Washington, D.C.: The Seminar. Irregular.

Arranged geographically by individual Women's Transportation Seminar Chapters. The Women/Minority-Owned and Disadvantaged Business Enterprises Directory is arranged with firms listed both alphabetically and by state. Includes a member index and an employer index.

IV. Periodicals

compiled by Daniel C. Krummes
Institute of Transportation Studies
University of California, Berkeley

AAMVA Bulletin. Washington, D.C.: American Association of Motor Vehicle Executives. 10 per year.

Contains brief news articles covering topics in the U.S. and Canada. Newsletter of the American Association of Motor Vehicle Administrators, a voluntary association of public service executives responsible for motor vehicle administration, driver licensing issues and the enforcement of state and national laws that govern the safe use of vehicles on the roads in the United States and Canada.

AASHTO Journal. Washington, D.C.: American Association of State Highway and Transportation Officials. Weekly. Also available from:
<http://www.transportation.org/publications/journal.nsf/>; Accessed December 2000.
Weekly overview of transportation issues.

AASHTO Quarterly. Washington, D.C.: American Association of State Highway and Transportation Officials. Quarterly. Also available from:
<http://www.transportation.org/publications/quarterly.nsf/>; Internet; Accessed December 2000.
Official publication of AASHTO. Contains brief news stories and other articles of interest to highway and transportation managers. Available on the Internet back to Fall 1997.

AASHTO Regs Report. Washington, D.C.: American Association of State Highway and Transportation Officials. Weekly. Also available from:
<http://www.transportation.org/publications/regs.nsf/>; Internet; Accessed January 2001.
Weekly focusing on new and revised transportation regulations.

Accident Analysis & Prevention. New York, N.Y.: Pergamon Press. Bimonthly.
*Sponsored by the International Association for Accident and Traffic Medicine and the International Research Committee on Biokinetics of Impacts. Provides wide coverage of areas relating to accidental injury and damage. Most of its articles relate to transportation accidents, with a decided emphasis on traffic accidents. Medical and behavioral aspects predominate, though coverage also often includes theoretical, empirical, legal and education aspects of the topic. Internet access available but requires subscription and registration. For Internet access information see Elsevier's homepage:
<http://www.elsevier.com/homepage/elecserv.htm>*

ACI Materials Journal. Farmingham Hills, Mich.: American Concrete Institute. Bimonthly.
Contains articles on the properties of materials used in concrete; research on materials and concrete; properties, use, and handling of concrete; and related ACI standards and committee reports. Article abstracts are available through a searchable database accessible at an ACI Internet site (<http://www.aci-int.net/journals/journals.htm>).

ACI Structural Journal. Farmingham Hills, Mich.: American Concrete Institute. Bimonthly.
Contains articles on structural design and analysis of concrete elements and structures; research related to concrete elements and structures; design and analysis theory; and related ACI standards and committee reports. Article abstracts are available through a searchable database accessible through ACI's Internet site (at: <http://www.aci-int.net/journals/journals.htm>).

APWA Reporter. Kansas City, Mo.: American Public Works Association. Monthly. Also available from: <http://www.apwa.net/reporter/>; Internet; Accessed February 2001.

Features short news articles and current information on streets, roads, drainage, waste management and other public works.

ARTBA Washington Newsline. Washington, D.C.: American Road & Transportation Builders Association. Weekly. Also available from: <http://www.artba.org>; Internet; Accessed December 2000.

ARTBA represents the U.S. transportation construction industry. ARTBA Washington Newsline is available only on the Internet. Must be an ARTBA member to access the site.

Asphalt. Lexington, Ky.: Asphalt Institute. Quarterly.

Features short technical briefs and news articles. The Asphalt Institute is a U.S. based association of international petroleum asphalt producers, manufacturers, and affiliated businesses. Its stated mission is to promote the use, benefits and quality performance of petroleum asphalt, through engineering, research and educational activities and through the resolution of issues affecting the industry.

The Asphalt Contractor. Independence, Mo.: Infinity Publishing. 13 issues per year. Also available from: <http://www.asphalt.com>; Internet; Accessed January 2001.

Short technical and news articles. Intended audience: asphalt plant owners, asphalt contractors and pavement maintenance firms in the U.S. and Canada.

Automotive Engineering International. Warrendale, Pa.: Society of Automotive Engineers. 13 issues per year (plus an additional issue in May for SAE members only). Also available from: <http://www.sae.org/automag/>; Internet; Accessed February 2001.

Contains short news stories and (generally) longer technical articles, all focusing on the latest technological trends in automobile design. Also included are product briefings and information on automotive electronics. Current issue is available free-of-charge on the Internet; selected articles from recent issues also available on the Internet.

Automotive News. Detroit, Mich.: Crain Communications, Inc. Weekly. Also available from: <http://www.automotivenews.com>; Internet; Accessed January 2001.

*Current motor vehicle industry news, with a decidedly Detroit slant. Slick, full-color newspaper format. Latest issues available on the Internet. An annual **Market Data Book** is published in conjunction with **Automotive News**.*

Better Roads. Des Plaines, Ill.: Better Roads Magazine. Monthly. Also available from: <http://www.betterroads.com/>; Internet; Accessed February 2001.

Subtitled: "for the government/contractor project team." Serves the information needs of governmental and construction contractors involved in federal, state, county, city and township highway, road and bridge construction, winter maintenance, roadside and vegetation management and other highway-related projects. Features short articles, buyers guides, product information, etc. Internet version includes "article archive" back to 1998.

Bicycling. Emmaus, Pa.: Rodale Press. 11 issues per year. Also available from: <http://www.bicycling.com/>; Internet; Accessed January 2001.

General interest magazine focusing on road and off-road bicycling.

Bridge Design & Engineering. Swanley, Kent, England : Route One Publishing. 8 issues per year. Also available from: <http://www.bridgeweb.com/>; Internet; Accessed December 2000.

*New since the last edition of **Sources**; no. 1 dates to 1995. Covers all aspects of bridge design, construction and management worldwide. Features short news articles. Portions of the current issue are available on its Internet site.*

Busline Magazine. Arcola, Ill.: Rankin Publishing. Bimonthly. Also available from: <http://www.rankinpublishing.com/buslinehome.html>; Internet; Accessed January 2001.

*New since the last edition of **Sources**. Covers issues in the motorcoach and transit vehicle industries. Intended audience: management personnel, tour bus shuttle company executives, transit bus executives, as well as owners and purchasing agents in the industry. Issued in cooperation with the American Bus Association, United Motorcoach Association and American Public Transit Association. Current issue available on the Internet.*

Bus Ride. Phoenix, Ariz.: Friendship Publications, Inc. 10 issues per year. Also available from: <http://www.busride.com/busridemag.html>; Internet; Accessed February 2001.

Trade magazine of the bus, transit and motorcoach industry. Features short news stories, profiles of bus companies, transit systems and manufacturers, reports on the latest equipment and short technical articles. Intended audience: bus fleet managers and administrators. Latest issue available on the Internet.

Canadian Consulting Engineer. Don Mills, Ont.: Southam Communications, Ltd. Monthly.

Trade journal serving Canadian professional engineers in private practice within mechanical, electrical, structural and civil engineering. The only

*Canadian business publication written exclusively for consulting engineers.
Not currently (2/01) available on the Internet.*

Canadian Geotechnical Journal / Revue Canadienne de Géotechnique. Ottawa, Ont.: NRC Research Press. Bimonthly.

Scholarly journal noted for its articles on engineering practice related to foundations, excavations, soil properties, dams, and slopes. It offers extensive articles on new developments in geohydrology, rock engineering, geochemistry, waste management and contaminant transport, frozen soil, ice and snow, offshore soils, and geostatistics. NRC Research Press is a part of the National Research Council of Canada and also of the Canada Institute for Scientific and Technical Information. Also available on CD-Rom. Subscription information can be found at the NRC Research Press homepage (at: http://www.nrc.ca/cgi-bin/cisti/journals/rp/rp_desy_e?cgi).

Canadian Journal of Civil Engineering / Révue Canadienne de Génie Civil. Ottawa, Ont.: NRC Press. Bimonthly.

Official publication of the Canadian Society for Civil Engineering. Publishes articles in the engineering fields of structure, construction, mechanics, materials, transportation, computer applications, hydrotechnical and environmental engineering. NRC Research Press is a part of the National Research Council of Canada and also of the Canada Institute for Scientific and Technical Information. Also available on CD-ROM. Subscription information can be found at the NRC Research Press homepage (at: http://www.nrc.ca/cgi-bin/cisti/journals/rp/rp_desy_e?cgi).

Cement and Concrete Research. Elmsford, N.Y.: Pergamon Press. Monthly.

Publishes reviews, original papers and rapid communications in the field of cement, cement composites, concrete and other allied materials that incorporate cement. Research work reported encompasses the physics, chemistry and materials science of cement and its hydration, and the interrelation of chemical and microstructural characteristics with the mechanical properties, performance and durability of advanced cementitious materials and concrete. Also publishes selected papers from important conferences. Subscription and registration required for Internet access (see: <http://www.elsevier.com/homepage/elecserv.htm>)

Civil Engineering. London, Eng.: Thomas Telford. Bi-monthly.

Principal journal of the Proceedings of the Institution of Civil Engineers. Features refereed papers and topical briefing articles across all sub-disciplines of civil engineering. Summaries of current issue as well as abstracts from earlier issues available on the Internet; full text available on

the Internet only through paid subscription. For Internet subscription information see the Thomas Telford webpage (<http://www.t-telford.com/jolnew/bytitle/index.asp>)

Civil Engineering. Reston, Va. : American Society of Civil Engineers. Monthly. Also available from: <http://www.pubs.asce.org/ceonline/newce.html>; Internet; Accessed January 2001.

Official publication of the American Society of Civil Engineers. Includes feature articles on current engineering projects, brief news items, information on new products and book reviews. Selected feature articles from current and recent past issues (back to Jan. 1999) available free of charge on the Internet. Access to complete Internet version available only through paid subscription.

Civil Engineering Transactions. Crows Nest, N.S.W.: Engineers Australia Pty., Ltd. Annual.

Produced by the Institution of Engineers, Australia. Contains scientific research papers prepared by Australian engineers dealing with civil engineering projects and research.

Computers & Structures. Elmsford, N.Y.: Pergamon Press. 32 issues per year.

Focuses on recent advances in the development and use of computer methods for the solution of scientific and engineering problems related to hydrospace, aerospace and terrestrial structures. The word structures is interpreted in the broadest sense. The journal is intended to be of interest and use to researchers and practitioners in academic, governmental and industrial communities. Intended audience: structural engineers, materials technologists, computer scientists, mechanical, civil and construction engineers.

Concrete Engineering International. Farnham, Eng.: Palladian Publications. Monthly.

*New since the last edition of **Sources**; vol. 1., no. 1 dates to 1997. Includes short technical articles, news items and information on new products and services.*

Concrete International. Detroit, Mich.: American Concrete Institute. Monthly. Also available from: <http://www.concreteinternational.com/>; Internet; Accessed February 2001.

Official journal of the American Concrete Institute. Features short technical articles, news items and information on new materials and products. Selected articles from the current issue as well as back issues (to Jan. 1995) available at the journal's Internet web site.

Crash Prevention and Injury Control. Lausanne, Switzerland: Gordon and Breach Science Publishers. Quarterly. Also available from:

<http://www.gbhap-us.com/journals/268/268-top.htm>; Internet; Accessed January 2001.

Affiliated with the Association for the Advancement of Automotive Medicine and the International Research Council on the Biomechanics of Impact. Scholarly journal. Topics covered include impact biomechanics, vehicle crashworthiness, occupant restraint systems, epidemiology, clinical outcome studies and data analyses. Current issue available on the Internet.

C-SHRP Technical Briefs. Ottawa, Ont.: Transportation Association of Canada. Irregular.

Also available from: http://www.cshrp.org/english/tech_briefs.html; Internet; Accessed December 2000.

Highlights SHRP products or results of C-SHRP's complementary research program. The briefs summarize technical reports and where appropriate, update the status of research, product development or field applications since the publication of the reports. Information on product status in Canada is provided where available. Many are available in both English and French in pdf format on the Internet.

Earthquake Engineering and Structural Dynamics. Chichester, England: John Wiley. Monthly.

Contains articles for both researchers and practitioners in the field of earthquake engineering. Topics covered include seismology, ground motion characteristics, soil amplification and failure, probabilistic and deterministic methods of dynamic analysis, experimental behavior of structures of all types, methods of reducing the seismic response of structures including structural control, base isolation and hybrid methods, seismic code requirements and tsunamis. Methods for analyzing the effects of earthquakes are applicable to the determination of the response of structures to other types of loading, for example, wind or wave loading. Available on the Internet by paid subscription only; for information on Internet access see the John Wiley webpage (at: <http://www3.interscience.wiley.com>). Internet issues available back to Jan. 1996.

E N R. New York, N.Y.: McGraw-Hill. Weekly. Also available from:

<http://www.enr.com>; Internet; Accessed December 2000.

*Formerly (and still sub-titled) **EngineeringNews-Record**. Includes brief news articles on current construction projects, Annual and quarterly construction cost information is also provided. Primary focus is U.S., but some international coverage. Intended audience: practicing engineers. Online version free of charge, though it features only a selection of current **E N R** articles.*

Geospatial Solutions. Duluth, Minn.: Advanstar Communications. Monthly. Also available from: <http://www.geospatial-online.com/>; Internet; Accessed February 2001.

*New since the last edition of **Sources**; continues **Geo Info Systems**. Focus: Geographic Information Systems. Contains short news stories, market developments, technical briefs and tutorials. Recent issues available over the Internet.*

Geosynthetics International. Roseville, Minn.: Industrial Fabrics Association International. Bimonthly. Also available from: <http://www.ifai.com>; Internet; Accessed March 2001.

*New since the last edition of **Sources**; vol 1, 1994. Endorsed by the International Geosynthetics Society (IGS). Intended audience: individuals involved in the research, design, testing and specifications of geosynthetics. Covers all aspects of materials, research, behavioral research and applications technology relating to geosynthetics. Archived issues back to 1998 available on the Internet.*

Geotechnical Engineering. London, Eng.: Thomas Telford. Quarterly.

Refereed journal. Part of the Proceedings of the Institution of Civil Engineers, Geotechnical Engineering. Publishes reports, discussions of design methodologies and case studies concerned with practical aspects of geotechnical engineering. Covers tunneling, foundations, retaining and diaphragm walls, piling, embankments, subsidence, soil mechanics and geo-environmental engineering. Summaries of current issue as well as abstracts from earlier issues available on the Internet; full text available on the Internet only through paid subscription. For Internet subscription information see the Thomas Telford webpage (<http://www.t-telford.com/jolnew/bytitle/index.asp>)

Geotechnical Fabrics Report. Roseville, Minn.: Industrial Fabrics Association International. 10 issues per year. Also available from: <http://www.ifai.com>; Internet; Accessed January 2001.

Intended audience: civil engineers, landscape architects, installers, contractors and others interested in utilizing geosynthetics. Features latest news and development techniques concerning geotextiles, geomembranes, geosynthetic clay liners, geogrids, geocomposites and erosion-control products. Current and archived issues back to April 2000 available on the Internet.

Geotechnical Testing Journal. Philadelphia, Pa.: American Society for Testing and Materials. Quarterly.

Focuses on new developments in soil and rock testing and related fields. All papers peer-reviewed. Includes papers, technical notes, letters to the editor, discussion of previously published papers, and book reviews. Tables of contents back to 1994 are available on the Internet at the Society's website (<http://www.astm.org>).

Géotechnique: International Journal of Soil Mechanics. London, Eng.: Thomas Telford. 6 times per year.

Refereed journal containing research papers and technical notes in English or French in the fields of soil and rock mechanics, engineering geology and environmental geotechnics. Includes topics on experimental or theoretical research, novel design and construction methods, detailed geotechnical case histories and observations and measurements both during and after construction. Summaries of current issue as well as abstracts from earlier issues available on the Internet; full text available on the Internet only through paid subscription. For Internet subscription information see the Thomas Telford webpage (<http://www.t-telford.com/jolnew/bytitle/index.asp>)

Geotextiles and Geomembranes. Oxford, England: Elsevier Science Publishers. 8 issues per year.

Official Journal of the International Geosynthetics Society. Contains refereed technical papers covering research, design, construction, applications and case studies; technical notes, book reviews, reports of conferences and meetings, and letters to the Editor. Intended audience: geotechnical, civil and structural engineers, engineering geologists. Tables of contents back to 1996 available on Elsevier's Internet site (<http://www.elsevier.com>).

GPS World. Duluth, Minn.: Advanstar Communications. Monthly. Also available from: <http://www.gpsworld.com/>; Internet; Accessed March 2001.

*New since the last edition of **Sources**. Contains news and applications of the Global Positioning System. Highlights of current issue available over the Internet.*

Heavy Construction News. Toronto, Ont.: Rogers Media. Monthly. Also available from: <http://www.econstruction.ca>; Internet; Accessed February 2001.

Trade journal with a decided Canadian focus. Includes articles on current construction projects in Canada, news, worksite techniques and new products. Current and some archived issues available on the Internet.

Highway Safety Directions. Chapel Hill, N.C.: Highway Safety Research Center, University of North Carolina. Irregular. Also available from: <http://www.hsrb.unc.edu/directions>; Internet; Accessed February 2001.

Newsletter format with brief articles on traffic safety. Latest and archived issues dating back to 1998 available on the Internet.

Highways. Croydon, England: Alad, Ltd. 10 issues per year.

Subtitled the “magazine for highway maintenance and traffic management.” Primary focus is Great Britain’s highway construction industry. Contains short news and technical articles. No Internet version currently (2/01) available.

Highways and Transportation. London, England: Institution of Highways and Transportation. 10 issues per year. Also available from: <http://www.iht.org/publications/>; Internet; Accessed January 2001.

Official journal of the Institution of Highways and Transportation and the Institute of Highway Incorporated Engineers. Includes technical papers and news items, with an emphasis on Great Britain. Current issue and archived issues back to Jan. 2000 can be Accessed on the Internet, though most technical papers are apparently only available on the Internet to Institution/Institute members or journal subscribers.

IEEE Transactions on Vehicular Technology. New York, N.Y.: Institute of Electrical and Electronic Engineers. Bimonthly. Also available from:

<http://ieeexplore.ieee.org/lpdocs/epic03/RecentIssues.htm?punumber=25>; Internet; Accessed February 2001.

Official journal of the IEEE Vehicular Technology Society. Focuses on electrical and electronic technology as these topics relate to vehicles and vehicular systems. Vehicular communication systems are strongly represented. Most articles are technical in nature. Internet access to current and back issues (dating back to 1988) available, though restricted to paid subscribers and IEEE members.

IMSA Journal. Newark, N.Y.: International Municipal Signal Association. Bimonthly.

Official publication of the International Municipal Signal Association. Focusing on traffic engineering, the magazine contains news articles and technical briefings. As the name of its parent organization implies, most materials relate to traffic signals and other forms of traffic control. New products and tools, technological advances, new applications, and new ideas in the public safety field are also addressed in the magazine.

International Journal of Vehicle Design. Geneva, Switzerland: Inderscience Enterprises, Ltd. 8 issues per year.

Subtitled: the Journal of Vehicle Engineering and Components. Publishes the Proceedings of the International Association for Vehicle Design. Published

materials include articles on the engineering design, research into and development of all types of self-propelled vehicles and their components. Topics also include: the interface between aesthetics and engineering, integration of vehicle and components design in the development of complete vehicle systems, social and environmental impacts of vehicle design and energy and safety issues. Includes research reports, technical notes, book reviews and news items. Electronic version available; Inderscience's website (<http://www.inderscience.com/>) provides additional information Internet accessibility.

ITE Journal. Washington, D.C.: Institute of Transportation Engineers. Monthly. *Official journal of the Institute of Transportation Engineers. Focuses on traffic engineering with short, technical and news articles. A Web version of the journal includes all articles published in the print version since 1970, plus additional articles that have appeared exclusively on the Web since 1998. Access to full text articles, published since 1970, is provided only to ITE members. Information on the journal's Web version can be found at the ITE homepage (<http://www.ite.org>).*

Journal of Bridge Engineering. Reston, Va.: American Society of Civil Engineers. Quarterly.

*New since the last edition of **Sources**; vol. 1, no. 1 issued in 1996. Provides an international communication forum for the exchange of information among practicing bridge engineers, constructors and researchers. Reports the theory and the practice of the structural design, inspection, construction, and performance of bridges. Contains both research- and practice-oriented papers. Internet version of current issue and earlier issues (dating back to Jan. 1999) available, though access to complete Internet version is only through paid subscription (for online information go to: <http://www.pubs.asce.org/journals/su.html>).*

Journal of Cement, Concrete and Aggregates. Philadelphia, Pa.: American Society for Testing and Materials. Biannual.

Deals with the properties of concrete and its constituent materials (e.g., mechanical properties, durability, and cement). Includes reviews of literature and existing data, technical notes, letters to the editor, discussions of previously published papers and book reviews also appear. All papers peer-reviewed. Tables of contents back to 1994 are available on the Internet at the Society's website (<http://www.astm.org>).

Journal of Composites Technology and Research. Philadelphia, Pa.: American Society for Testing and Materials. Quarterly.

Provides a forum for the presentation, discussion and dissemination of information on composite materials and their response to the environments in which they are used, especially the engineering and technology of their application to components and structures. Provides a means of communication for researchers, developers, producers, users, suppliers, and professional organizations concerned with composite materials. Includes full-length technical articles, technical notes (Composites Review), preliminary technical communications (Research Briefs), new articles and announcements (World of Composites), book reviews, letters, and discussions of previously published work. All papers peer-reviewed. Tables of contents back to 1994 are available on the Internet at the Society's website (<http://www.astm.org>).

Journal of Construction Engineering and Management. Reston, Va.: American Society of Civil Engineers. Bimonthly.

Provides a communication arena for the exchange of ideas and knowledge on pivotal concerns in the construction industry. Publishes papers whose aims are to advance the science of construction engineering, to harmonize construction practices with design theories, and to further education and research in construction engineering and management. Production planning, cost and quality control, labor productivity, inspection, computer applications, and environmental concerns are among the areas addressed. Internet version of current issue and earlier issues (dating back to Jan. 1999) available, though access to complete Internet version is only through paid subscription (for online information go to: <http://www.pubs.asce.org/journals/su.html>).

Journal of Geotechnical and Geoenvironmental Engineering. Reston, Va.: American Society of Civil Engineers. Monthly.

Surveys the field of soil mechanics and foundations, placing special emphasis on the relationship between the geologic environment and man-made works. Traditional topics, as well as newer areas and concerns, are featured, as contributors present practice-oriented papers, case histories, and theoretical papers that have a significant potential for practical application. Topics covered include soil dynamics; engineering behavior of soil and rock; slope stability; dams; rock engineering; environmental geotechnics; geosynthetics; and groundwater monitoring and restoration. Internet version of current issue and earlier issues (dating back to Jan. 1999) available, though access to complete Internet version is only through paid subscription (for online information go to: <http://www.pubs.asce.org/journals/su.html>).

Journal of Safety Research. Itasca, Ill.: National Safety Council. Quarterly.

Interdisciplinary publication looking at all facets of safety, with many of the articles contained in the journal dealing with traffic safety. Published in cooperation with Pergamon Press (Elsevier Science). Subscription and registration required for Internet access (see: <http://www.elsevier.com/homepage/elecserv.htm>)

Journal of Surveying Engineering. Reston, Va.: American Society of Civil Engineers. Quarterly.

Covers all civil engineering developments in surveying, mapping, and related fields such as cartographic and interplanetary surveying. Provides a balanced mixture of peer-reviewed technical papers and notes, numerous discussions, and occasional book reviews that illuminate the use of computer databases in mapping and surveying, the role of professionals in an information society, and the use of satellites and space technology for surveying and mapping the earth. Internet version of current issue and earlier issues dating back to Jan. 1999 available, though access to complete Internet version is only through paid subscription (for online information go to: <http://www.pubs.asce.org/journals/su.html>).

Journal of Terramechanics. Elmsford, N.Y.: Pergamon Press. Quarterly.

Scholarly journal devoted to scientific articles concerned with research, design, and equipment utilization in the field of terramechanics. Presents a cross-section of technical papers, reviews, comments and discussions, and serves as a medium for recording recent research and development work. Topics covered include: the interaction between off-road vehicles and terrain and its effects on vehicle traction mechanics, ride dynamics, obstacle-negotiating ability, and maneuverability; the movement of soil by vehicles and by earth-moving and agricultural implements; the study of terrain trafficability, including mapping and classification, pertaining to off-road locomotion; the relation between off-road vehicle traffic, properties of soil, and plant growth. For Internet access information see Elsevier Science's homepage (at: <http://www.elsevier.com/homepage/elecserv.htm>).

Journal of Testing and Evaluation. Philadelphia, Pa.: American Society for Testing and Materials. Bimonthly.

Multi-disciplinary forum for the applied sciences and engineering. Presents new technical information, derived from field and laboratory testing, on the performance, quantitative characterization, and evaluation of materials. Papers present new methods and data along with critical evaluations; report users' experience with test methods and results of interlaboratory testing and analysis; and stimulate new ideas in the fields of testing and evaluation. Major topic areas are fatigue and fracture, mechanical testing, and fire

testing. Also publishes review articles, technical notes, research briefs and commentary. All papers are peer-reviewed. Tables of contents and abstracts of journal articles back to 1994 are available on the Internet at the Society's website (<http://www.astm.org>).

Journal of the Illuminating Engineering Society. New York, N.Y.: Illuminating Engineering Society of North America. Biannual.

IESNA members include engineers, lighting designers, electrical contractors, manufacturers, utility personnel, educators, scientists and associated lighting professionals. Internet version currently (2/01) unavailable.

Journal of Traffic Medicine: An International Journal of Traffic Safety. Warren, Mich.: International Traffic Medicine Association. Quarterly.

Focuses on traffic safety, with an emphasis on the medical aspects of the topic. Though the journal itself is not currently available on the Internet, a complete table of contents listing dating to 1989 is (at: <http://www.jtrafficmedicine.com>).

Journal of Transportation and Statistics. Washington, D.C.: U.S. Dept. of Transportation, Bureau of Transportation Statistics. 3 issues per year. Also available from: <http://www.bts.gov/programs/jts/>; Internet; Accessed December 2000.

*New since the last edition of **Sources**; vol. 1, no. 1 issued in 1998. Scholarly, peer-reviewed journal which serves the transportation community by increasing the understanding of the role of transportation in society, its function in the economy, and its interactions with the environment. Additionally, provides a forum for the latest developments in transportation information and data, theory, concepts, and methods of analysis relevant to all aspects of the transportation system. Publishes original research on the use of information to improve public and private decision-making for transportation. Full text available (free of charge) on the Internet for all issues back to 1998.*

Journal of Transportation Engineering. New York, N.Y.: American Society of Civil Engineers. Bimonthly.

Professional journal for ASCE members from a variety of ASCE Divisions (Air Transport, Highway, Pipeline and Urban Transportation). Features scholarly and technical articles. Print, CD-Rom and Internet access available (see: www.pubs.asce.org for information on Internet access). Internet access restricted to registered subscribers. (see: www.pubs.asce.org for information).

Journal of Urban Planning and Development. New York, N.Y.: American Society of Civil Engineers. Quarterly.

Journal of ASCE's Urban Planning and Development Division. Covers the application of civil engineering to urban planning aspects such as area-wide transportation, the coordination of planning and programming of public works and utilities, and the development and redevelopment of urban areas. Features scholarly and technical articles. Print, CD-Rom and Internet access available (see: www.pubs.asce.org for information on Internet access). Internet access restricted to registered subscribers.

Landscape Architecture. Washington, D.C.: American Society of Landscape Architects. Monthly.

Professional journal of the American Society of Landscape Architects. Articles emphasize landscape design and construction. Table of contents for latest issue available at the Society's Internet site (<http://www.asla.org>).

Landscape Journal. Madison, Wis.: University of Wisconsin Press. Bi-annual.

Contains academic research, scholarly investigation and technical information of interest to practitioners, academicians and students of landscape architecture. Topics include: visual quality assessment, human behavior and the environment, historic and cultural landscape preservation and management, landscape history, planting design, vegetation management, landscape restoration and reclamation, land information systems, and energy considerations in landscape architecture. Latest table of contents available on the Internet (at: <http://www.wisc.edu/wisconsinpress/journals/landscape.html>).

Lighting Design + Application. New York, N.Y.: Illuminating Engineering Society of North America. Monthly..

IESNA's monthly magazine. IESNA members include engineers, lighting designers, electrical contractors, manufacturers, utility personnel, educators, scientists and associated lighting professionals. Internet version of this magazine currently (2/01) unavailable.

Lighting Journal. London, Eng.: Institution of Public Lighting Engineers. Quarterly. *Official journal of the Institution of Lighting Engineers.*

Magazine of Concrete Research. London, Eng.: Thomas Telford. Bimonthly

Refereed journal containing technical papers on concrete research. Internet version available through paid subscription at the Thomas Telford Internet site (<http://www.t-telford.com>).

National Cooperative Highway Research Program Report. Washington, D.C.: Transportation Research Board. Irregular.

Final reports on research findings, issued at the conclusion of Cooperative Research Program projects, in a format specifically designed for managers and practitioners.

Photogrammetric Engineering and Remote Sensing. Bethesda, Md.: American Society of Photogrammetry and Remote Sensing. Monthly.
Scholarly journal for imaging and geospatial information science and technology. Features technical articles. Tables of contents dating back to 1996 available on the Internet (at: <http://www.asprs.org/publications.html>).

PCI Journal. Chicago, Ill.: Prestressed Concrete Institute Journal. Bimonthly.
Professional journal featuring technical articles and general news items. Contains information on precast and prestressed concrete research, design, construction and industry developments. Brief abstracts of major articles from current issue and back issues dating to Nov./Dec. 1998 available on the Internet (at: <http://www.pci.org/publications/journal/>).

Public Roads. Washington, D.C.: U.S. Government Printing Office. Bimonthly. Also available from: <http://www.tfhrc.gov/pubrds/>; Internet; Accessed March 2001.
Sponsored by the Federal Highway Administration. Features short articles on current highway and traffic engineering projects (generally U.S.), including design and construction aspects. Includes feature articles, book reviews, news reports, information on equipment and information on federal policies. Current and past issues (back to 1993) available on the Internet.

Public Works: Engineering, Construction & Maintenance. Ridgewood, N.J.: Public Works Journal Corporation. Monthly. Also available from: <http://www.pwmag.com>; Internet; Accessed January 2001.
Intended audience: public works professionals, consulting engineers and contractors who design, construct, operate, maintain and rehabilitate public works and infrastructure projects and programs in U.S. cities, counties, states, utilities and special districts. Includes short feature stories, technical articles, book reviews and information on current federal policies. Latest issue available on the Internet.

Research Results Digest. Washington, D.C.: Transportation Research Board. Irregular.
Preliminary reports providing early awareness of research results emanating TRB's Cooperative Research Program projects. Of particular interest are reports from the National Cooperative Highway Research Program.

Right of Way. Torrance, Calif.: International Right of Way Association. Bimonthly.

Official journal of the International Right of Way Association. Features short articles focusing on highway, pipeline and telecommunications right of way issues. Not currently (2/01) available on the Internet, though information on the Association itself can be Accessed at its Internet site (<http://www.irwaonline.org/>).

Road & Transport Research: A Journal of Australian and New Zealand Research and Practice. Nunawading, Vic.: ARRB Transport Ltd. Quarterly.

*New since the last edition of **Sources**; vol. 1, no. 1 issued in 1992. Continues **Australian Road Research**. ARRB Transport Research Ltd. is the renamed Australian Road Research Board. Includes refereed papers (focusing on roads, traffic engineering and transportation engineering), results of original research, state-of-the-art reviews and theoretical and applied analyses of topical issues and practices, local road news, and information on conferences and new ARRB publications. Geographic coverage: generally Australia and New Zealand.*

Road Materials and Pavement Design. Stanmore, Middlesex, U.K.: Hermes Science Publishing. Quarterly. Also available from: <http://www.hermes-journals.com>; Internet; Accessed March 2001.

*New since the last edition of **Sources**; vol. 1, no. 1 issued in 2000. Subtitled "International Journal of Road Materials and Pavement Design," its first issues have concentrated on pavement design issues. Contents include original scientific papers, state-of-the-art reports, scientific notes and discussion papers. Internet access currently (1/01) available free of charge but will probably require a paid subscription and registration at some point in the future.*

Roads & Bridges. Des Plaines, Ill.: Scranton Gillette Communications. Monthly. Also available from: <http://www.roadsbridges.com/rb/>; Internet; Accessed February 2001.

Covers equipment, materials and technology issues for the transportation construction industry. Features short feature stories. Intended audience: practicing highway engineers. Current issue and selected articles from past issues available on the Internet.

Safety Canada. Ottawa, Ont.: Canada Safety Council. Quarterly.

Newsletter format. Topics include brief articles on Canadian traffic safety issues, as well as work, home and recreational safety in Canada. Internet versions of current issue and previous issues back to Jan. 1998 available at the Safety Council's homepage (at: <http://www.safety-council.org>).

Status Report. Arlington, Va.: Insurance Institute for Highway Safety. 10 issues per year.

The Institute's newsletter. Current issue and index of past issues dating back to Jan. 1997 available at the Institute's Internet site (at: <http://www.hwysafety.org/pubs.htm>).

Synthesis of Highway Practice. Washington, D.C.: Transportation Research Board. Irregular. Also available from: <http://www4.nationalacademies.org/trb/synthesis.nsf>; Internet; Accessed February 2001.

Prepared under the sponsorship of the National Cooperative Highway Research Program. Individual reports present a synthesis of current practice in the field of highway engineering. Reports are prepared under the guidance of a technical panel, with the assistance of an expert in the topic area who serves as the project consultant. Internet version of current syntheses available.

T.A.C. News. Ottawa, Ont.: Transportation Association of Canada. Bimonthly. Also available from: <http://www.tac-atc.ca/resource/news.htm>; Internet; Accessed January 2001.

*Continues **RTAC News**. As the print version of this newsletter is a TAC "membership benefit", the most recent issue will only be posted to TAC's Internet site when the next issue of the newsletter is published.*

Tollways and ETC Forum. Washington, D.C.: International Bridge, Tunnel and Turnpike Association. 10 issues per year.

Newsletter featuring short articles. Focus is on toll roads, bridges and tunnels, with increasing emphasis on electronic toll collection (aka "ETC"). Only an abbreviated Internet presence (for IBTTA as a whole) as of Feb. 2001 (see: <http://ibtta.org/>).

Traffic Engineering and Control. London, Eng.: Hemming Group. 11 issues per year.

Though subtitled "the international journal of traffic management and transportation planning," articles tend to focus most on Great Britain. Features technical and state-of-the-art studies. Includes short news articles as well as descriptions of new traffic engineering projects and services. A Spanish language edition is also produced in Spain. No Internet presence as of Feb. 2001, though a website is currently under construction (<http://www.hemming-group.co.uk/>).

Traffic Safety. Itasca, Ill.: National Safety Council. Bimonthly.

Brief articles on traffic safety topics including coverage of such key areas as legislation, law enforcement, road/vehicle/driver conditions affecting traffic safety, engineering innovations, statistics, and driver training. Includes U.S. traffic accident statistics. Not currently available on the Internet;

subscription information can be found at: <http://www.nsc.org/pubs/traffic.htm>

Transportation Quarterly. Washington, D.C.: Eno Foundation for Transportation. Quarterly.

*Formerly **Traffic Quarterly**. A scholarly journal which retains a strong interest in highway transportation and traffic engineering. Note that the **Journal of the Transportation Research Forum** is now published as part of **Transportation Quarterly**.*

Transportation Science. Linthicum, Md.: Institute for Operations Research and the Management Sciences. Quarterly. Also available from: <http://transci.pubs.informs.org/>; Internet; Accessed February 2001.

Scholarly journal published by the Transportation Science Section of the Institute for Operations Research and the Management Sciences. Contains many articles on traffic engineering. Current and past issues (back to 1996) available on the Internet.

TR News. Washington, D.C.: Transportation Research Board. Bimonthly. Also available from: http://www4.nationalacademies.org/trb/onlinepubs.nsf/web/tr_news; Internet; Accessed January 2001.

Features articles on innovative and timely research and development activities for all modes of transportation. Brief news articles also included, along with profiles of transportation professionals, meeting announcements, summaries of new publications and news of Transportation Research Board activities. Current and past issues (through late 1997) available on the Internet.

Tunneling and Underground Space Technology. Elmsford, N.Y.: Pergamon Press. 5 issues per year.

An international journal which publishes articles on innovative uses of underground space and the results of research into improved, more cost-effective methods for the planning, geo-investigation, design, construction, operation and maintenance of underground and earth-sheltered structures. Reports of the International Tunneling Association (ITA) working groups and papers from major conferences are a regular feature of the journal. For Internet access information see Elsevier Science's homepage (at: <http://www.elsevier.com/homepage/elecserv.htm>).

Tunnels and Tunneling International. London, Eng.: Polygon Media, Ltd. Monthly. News articles and short features on tunneling, with a focus on new technologies. Produced in cooperation with the British Tunneling Society.

UMTRI Research Review. Ann Arbor, Mich.: University of Michigan, Transportation Research Institute. Quarterly.

Features multi-disciplinary studies on transportation topics with generally one or two articles per issue. Not currently (2/01) available on the Internet.

Vehicle System Dynamics: International Journal of Vehicle Mechanics and Mobility. Lisse, Netherlands: Swets & Zeitlinger. Bimonthly.

Official publication of the International Society for Vehicle System Design. Articles emphasize the theoretical background of research and development problems in all types of ground vehicles. Topics covered include kinematics and kinetics, control of motion and forces, and computer-aided modeling. Internet access available only through subscription. Subscription information can be found at the publisher's website (<http://www.swets.nl/>).

World Highways / Routes du Monde. Swanley, Kent, England : Route One Publishing. 10 issues per year. Also available from: <http://www.worldhighways.com>; Internet; Accessed March 2001.

Covers all aspects of highway construction and management worldwide. Features short news articles. Portions of the current issue are available on its Internet site. Official publication of the International Road Federation.

World Tunneling. London, England: World Tunneling. Monthly. Also available from: <http://www.worldtunnelling.com/>; Internet; Accessed February 2001.

Specialist publication for the international tunneling business. Provides a mix of project reviews, news reports and equipment features from around the world. Current issue as well as earlier issues back to 1996 available on the Internet.

V. Conferences

Compiled by Daniel C. Krummes
Institute of Transportation Studies
University of California, Berkeley

ARRB Transport Ltd. **Proceedings [of the ARRB Conference].** Vermont South, Vic.: ARRB. Biennial. 1962-

Focus is Australia. Includes sections on traffic engineering, pavements, materials and structures. As of 19th conference (1998), papers issued on CD-Rom copies with workshop summaries also issued in a paper edition.

ASME International Mechanical Engineering Congress and Exposition (1999). **Innovations in Vehicle Design and Development**. New York, N.Y.: American Society of Mechanical Engineers, 1999. 185 p.

Focuses on technological innovations in motor vehicle design and construction.

Association for the Advancement of Automotive Medicine. **Proceedings**. Des Plaines, Ill.: The Association. Annual. 1956-

Sponsoring organization formerly the American Association for Automotive Medicine; now renamed to reflect its role as an international, multi disciplinary organization for crash injury research.

Association of Asphalt Paving Technologists. **Asphalt Paving Technology**. [S.l.]: The Association. Annual. 1974-

Place of publication varies. Irregular 1974-1986; annual, 1988 to present. Out-of-print volumes available from University Microfilms International.

Caltrans Seismic Research Workshop. **Proceedings**. Sacramento, Calif.: California Dept. of Transportation. Irregular. 1991-

Latest issued for the 5th Workshop, held in 1998.

Canadian Technical Asphalt Association. **Proceedings**. Annual. 1956-

Publisher varies. The latest (2000) edition is available through Polyscience Publications of Laval, Quebec, Canada. Latest edition available in both print and CD-Rom format.

Conference on Road and Airport Pavement Response Monitoring Systems. **Proceedings**. New York, N.Y.: American Society of Civil Engineers, 1992. 429 p.

Sponsored by the U.S. Army Cold Regions Research and Engineering Laboratory and the Federal Aviation Administration in cooperation with ASCE. Variously styled a "conference" or an "international symposium," this meeting was organized to continue the work begun the 1st International Symposium on the State of the Art of Pavement Response Monitoring Systems for Roads and Airports which had been held in Lebanon, N.H. in 1988.

Conference on Structural Materials Technology. **Structural Materials Technology IV: An NDT Conference**. Lancaster, Pa.: Technomic Publishing Company, 2000. 442 p.

Co-sponsored by the American Society for Non-Destructive Testing and the Federal Highway Administration. Earlier conferences were held in 1994, 1996 and 1998. Focuses on non-destructive testing technology and techniques.

Conference on Traffic and Granular Flow. **Traffic and Granular Flow '99: Social, Traffic and Granular Dynamics.** Berlin, Germany: Springer-Verlag, 2000. 522 p.

This is the third in a series of meetings focusing on traffic flow mathematical models. Earlier meetings were formal workshops and held in Germany in 1995 and 1997.

Institute of Transportation Engineers. **Compendium of Technical Papers.** Washington, D.C.: The Institute. Annual. 1976-

*Continues the **Proceedings** of its precursor, the Institute of Traffic Engineers (1931-1975). **Compendium** is now available only in CD-Rom format.*

International Bridge, Tunnel and Turnpike Association. **Proceedings.** Washington, D.C.: The Association. Annual. 1932-

*Title varies. Latest (1998) in two volumes: **Annual Meeting & Exhibition Proceedings and Committee Meeting Proceedings.***

International Conference on Asphalt Pavements. **Proceedings.** Austin, Tex.: International Society of Asphalt Pavements. Irregular. 1962-

Originally the International Conference on the Structural Design of Asphalt Pavements. Publisher has varied over the years. Latest (7th) held in 1992.

International Conference on Concrete Pavement Design and Rehabilitation. **Proceedings.** West Lafayette, Ind.: Purdue University, School of Engineering. Irregular. 1977-

Conference title varies. Latest (6th) was held in 1997 in Indianapolis, Ind.

International Conference on Bridge Management. **Bridge Management: Inspection, Maintenance, Assessment and Repair.** London, Eng.: Thomas Telford. Biennial. 1990-

Sponsored by the Institution of Civil Engineers, Great Britain Dept. of Transport, the Institution of Structural Engineers and the International Association for Bridge and Structural Engineering (British Group). Latest published covers the 2000 Conference.

International Conference on Noise Control Engineering. **Inter-Noise Proceedings.**

Poughkeepsie, N.Y.: Noise Control Foundation. Annual. 1962-

Title varies. Often includes research and studies on traffic noise.

International Conference on Soil Mechanics and Foundation Engineering. **Proceedings.** Quadrennial. 1936-

An international forum for state-of-the-art papers on soil mechanics. Publisher varies. Latest conference in print is the 13th (1994), available through either the Japanese Society of Soil Mechanics and Foundation

Engineering or (in the United States) through publisher A.A. Balkema of Brookfield, Vt.

International Conference on the Bearing Capacity of Roads and Airfields. **Proceedings.** Irregular. 1982-

Sponsoring organization and publisher varies.

International Conference on Traffic and Transportation Studies. **Proceedings.** Biennial. 1998-

*Publisher varies. 2nd (2000) co-sponsored by the American Society of Civil Engineers in cooperation with the China Association for Science and Technology. **Proceedings** for the 1998 and 2000 conferences are available through ASCE.*

International Conference on Vision in Vehicles. **Vision in Vehicles.** New York, N.Y.: Elsevier Science Publications. 1985?- Irregular.

Latest issued 1998. Includes information the cognitive aspects of vision, on motor vehicle automatic control and computer vision.

International Road Federation. **World Meeting Proceedings.** Washington, D.C.: The Federation. Irregular. 1952-

Title varies. Latest (1997) issued only on CD-Rom.

International Symposium on Heavy Vehicle Weights and Dimensions. **Proceedings.** Every three years. 1986-

Publisher varies. Latest (1995) issued by the University of Michigan Transportation Research Institute. Generally includes highway engineering and safety issues.

International Symposium on Transportation and Traffic Theory. **Proceedings.** Irregular. 1959-

Title and publisher have varied over the years. The latest Proceedings (for the 14th International Symposium held in Haifa, Israel) was published in 1999 by Pergamon Press.

National Conference on High-Occupancy Vehicle Systems. **Proceedings.** Annual. 1986-

*Title and publisher vary. Latest (7th) was held in Los Angeles in 1994, with its **Proceedings** published by the Transportation Research Board.*

National Conference on Noise Control Engineering. **Noise-Con Proceedings.** Poughkeepsie, N.Y.: Noise Control Foundation. Annual. 1973-

Title varies. The Conference was held irregularly during its early years, but is now an annual event.

National Seismic Conference on Bridges and Highways. **Proceedings.** Sacramento, Calif.: California Dept. of Transportation, 1997. 755 p.

Co-sponsored by the Federal Highway Administration.

Paving in Cold Areas Workshop. **Proceedings.** Irregular. 1982-

A series of joint Canadian-Japanese workshops. Publisher varies; latest (1993) evidently published/distributed by Transport Canada in Ottawa.

Stapp Car Crash Conference. **Proceedings.** Ann Arbor, Mich.: The Stapp Association. Annual. 1955-

Focuses on crash injury research, automotive safety measures and automotive safety appliances.

Transportation Association of Canada. **Annual Conference Proceedings.** Ottawa, Ont.: The Association. Annual. 1971-

*Title varies. Continues the **Proceedings of the Canadian Good Roads Association** (1919-1970). TAC was formerly (1971-1989) the Roads and Transportation Association of Canada. Since 1996 **Annual Conference Proceedings** have been available only in CD-Rom format.*

Transportation Research Board. [**Annual Conference Proceedings**]. Annual. 1921-

*Title supplied by compiler. A great many of the thousands of papers presented each year at the TRB Annual Conference concern the theoretical and practical aspects of highway and bridge design, construction, maintenance, etc. Preprints of the papers are now issued in CD-Rom format at the Conference by TRB. Revised versions of most of the presented papers appear in TRB's **Transportation Research Record** series, with each Record arranged (generally) by topic.*

World Road Congress. Report of the Proceedings of the Congress. [S.l.]: Permanent International Association of Road Congresses. Irregular. 1908-

Title varies. Worldwide focus with much information concerning road design and construction. Latest published proceedings are for the 21st Congress which was held in 1997 in Kuala Lumpur, Malaysia.

VI. Dictionaries & Glossaries

compiled by John Gallwey
Institute of Transportation Studies

University of California, Berkeley

American Association of State Highway Officials. **AASHO Highway Definitions**. Washington, D.C.: The Association, 1968. 26 p.

American Concrete Institute. Committee 116. **Cement and Concrete Terminology**. Detroit, Mich. : The Institute, 2000. 73 p.

American Society of Civil Engineers. **Definitions of Surveying and Associated Terms**. New York, N.Y.: The Society, 1978 (1989 printing). Rev. ed. 210 p.

American Society of Civil Engineers. **The Glossary of the Mapping Sciences**. New York, N.Y. : The Society, 1994. 581 p.

Bougie-Lauzon, Suzanne. **Lexique du Transport Routier : Anglais-Français**. Québec, Que. : Gouvernement du Québec, Office de la Langue Française, 1984. 208 p.
Primarily deals with trucking terms.

Boyce, Byrl N. (ed.). **Real Estate Appraisal Terminology**. Cambridge, Mass. : Ballinger Publishing Company, 1981. Rev. ed. 367 p.

Coster, Jean de. **Dictionary for Automotive Engineering : English, French, German = Dictionnaire du Génie Automobile : Anglais, Français, Allemand = Wörterbuch für Kraftfahrzeugtechnik : Englisch, Französisch, Deutsch**. Munich, Germany: K.G. Saur, 1999. 4th rev. ed. 690 p.

Cox, Barbara, Jerry V. Cox and David Silver-Westrick. **Prentice Hall Dictionary of Real Estate: A Complete Reference**. Upper Saddle River, N.J.: Prentice-Hall, 2000. 384 p.

Engel, Mary Louise and Neil K. Van Allen. **NHTSA/SASI Cooperative Thesaurus of Highway and Motor Vehicle Safety Literature**. Washington, D.C. : National Highway Traffic Safety Administration, 1973. 1036 p.

Hemphill, Thomas. **The Essential Dictionary of Real Estate Terminology**. Englewood Cliffs, N.J. : Prentice-Hall, 1982. 193 p.

Highway Research Board. **Glossary of Pedologic Soils & Landform Terminology for Soil Engineers**. Washington, D.C.: The Board, 1957. 36 p.

Highway Research Board. **Joint Sealing: A Glossary**. Washington, D.C.: The Board, 1970. 30 p.

Highway Research Board. **Standard Nomenclature & Definitions for Pavement Components & Deficiencies.** Washington, D.C. : The Board, 1970. 29 p. (Special Report no. 113)

Horticultural Research Institute. **A Technical Glossary of Horticultural and Landscape Terminology.** Washington, D.C.: The Institute, 1971. 109 p.
Compiled by Dept. of Landscape Architecture, Pennsylvania State University, and others for the Horticultural Research Institute..

International Road Transport Union. **Dictionary of Road Transport Terminology.** Amsterdam, Netherlands: Elsevier, 1988. 380 p.
Quick reference work which ensures precise and up-to-date usage of technical terms for the road transport industry and for academic institutions where transport is studied and researched.

Jackson, Julia (ed.). **Glossary of Geology.** Alexandria, Va. : American Geological Institute, 1997. 4th ed. 769 p.
*Rev. ed. of **Glossary of Geology** by Robert L. Bates and Julia A. Jackson. 3rd ed. (1987).*

Kondo, Kohji. **Elsevier's Dictionary of Automobile Engineering : in Five Languages – English, German, French, Italian, and Spanish.** Amsterdam, Netherlands & New York, N.Y. : Elsevier, 1977. 639 p.

Logie, Gordon. **Glossary of Transport : English, French, Italian, Dutch, German, Swedish.** Amsterdam, Netherlands & New York, N.Y.: Elsevier, 1980. 296 p.

Loo, Shirley. **Transportation : An Alphabetical Microthesaurus of Terms Selected from the Legislative Indexing Vocabulary.** Washington, D.C.: Congressional Research Service, 1988. 56 p.

National Safety Council. Committee on Motor Vehicle Traffic Accident Classification. **Manual on Classification of Motor Vehicle Traffic Accidents.** Chicago, Ill.: The Council, 1997. 6th ed. 32 p.

Nokela, I. , S. Lyly and E. Aho. **Liikennetekniikan Sanasto : Suomi-Ruotsi-Englanti-Saksa = Vocabulary of Transportation Engineering : Finnish-Swedish-English-German.** Otaniemi, Finland: Helsingin Teknillinen Korkeakoulu, 1980. 298 p.
Emphasis on highways with some terminology on public transport.

Organisation for Economic Cooperation and Development. Road Transport Research Programme. **Documentation Internationale de Recherche Routière (DIRR) : Thesaurus, 1985 = International Road Research Documentation (IRRD) : Thesaurus, 1985 = Internationale Dokumentation Strasse (IDS) : Thesaurus, 1985.** Paris, France: OECD, 1985. 2 vols.

Organisation for Economic Co-operation and Development. Road Transport Research Programme. **International Road Research Documentation (IRRD) Thesaurus : Numerical List and English Arrowed Diagrams.** Paris, France : OECD, 1985. 348 p.
These are major glossaries of highway and traffic terms.

Organization of American States. **Vocabulario Vial.** Washington, D.C.: The Organization, 1981. 207 p.
Glossary of road terms in English, Spanish, French and Portuguese.

Paulus, A.. **Civil Engineering in French : A Guide to the Language and Practice of Civil Engineering in French-Speaking Countries.** London, England : Thomas Telford, 1982. 192 p.
Overall focus on civil engineering, with information on roads, construction, materials, and design.

Roads and Transportation Association of Canada. **Bilingual Glossary of Canadian Highway Construction Terms = Vocabulaire Bilingue des Termes Employés dans la Construction Routière Canadienne.** Ottawa, Ont.: The Association, 1971. 222 p.

Slagle, Geoffrey G. (ed.). **Data Element Dictionary for Traffic Records Systems.** Arlington, Va.:American Association of Motor Vehicle Administrators, 1998. 3rd ed. 1 vol.
Provides common names, abbreviations, definitions, uses, sources and synonyms of data elements transmitted and communicated by state and local records systems.

Society of Automotive Engineers. **SAE Motor Vehicle Safety and Environmental Terminology.** Warrendale, Pa. : The Society, 1995. 328 p.

Stamp, L. Dudley and Audrey N. Clark. (eds.) **A Glossary of Geographical Terms : Based on a List Prepared by a Committee of the British Association for the Advancement of Science.** London, England & New York, N.Y.: Longman, 1979. 3rd ed. 571 p.
Prepared in cooperation with the Research Committee of the British Association for the Advancement of Science.

Vollmer, Ernst. **Encyclopedia of Hydraulics, Soil and Foundation Engineering.** Amsterdam, Netherlands & New York, N.Y.: Elsevier, 1967. 398 p.

VII. Indexing / Abstracting Services & Data Bases

compiled by John Gallwey
Institute of Transportation Studies
University of California, Berkeley

Print Sources

American Society of Civil Engineers. **ASCE Publications Information**. New York, N.Y.: The Society, 1982-1992.

Published as ASCE Publications Abstracts, 1966-1982.

Australian Road Research Board. **Australian Road Index**. Nunawading, Vic. : The Board, 1975-1985.

Council of Scientific & Industrial Research. Central Road Research Institute. **CRRRI Road Abstracts**. New Delhi, India : The Council, 1961 to present.

Wallace, A. **Automotive Literature Index, 1947-1976 : a Thirty-Year Guide to Car and Driver, Motor Trend, Road & Track**. Toledo, Ohio : Wallace, 1981. 1 vol.

Wallace, A. **Automotive Literature Index, 1977-1981 : a Five-Year Guide to Fifteen American Automotive Journals**. Toledo, Ohio : Wallace, 1983. 283 p.

Wallace, A. **Automotive Literature Index, 1982-1986 : a Five-Year Guide to Fifteen American Automotive Journals**. Toledo, Ohio : Wallace, 1987. 253 p.

Databases - - CD-Rom

Ei Compendex. Hoboken, N.J. : Engineering Index, Inc.

Comprehensive interdisciplinary engineering database, indexing and abstracting about 2,600 international journals, conference proceedings and technical reports in all areas of engineering. Coverage is 1970 to the present, with over 4,630,000 records as of June 2000. INSPEC is also available online through DIALOG or on the Web from SilverPlatter's site WebSPIRS (<http://www.silverplatter.com>).

INSPEC Ondisc. Edison, N.J. : Inspec Inc.

Electrical and electronic engineering database, covering literature on all aspects of physics, electronics and computing, scanning papers published in approximately 4,200 journals, 1000 conferences, books, reports and dissertations each year. Subject coverage includes: physics; circuits, components and devices; telecommunications;

superconductors; electro-optics and lasers; power systems; microelectronics; computer hardware; control systems and theory; artificial intelligence; software engineering; office automation; robotics; medical electronics; information science. INSPEC is also available online through DIALOG and several other host services. (Information about online access can be found on INSPEC's Web site at <http://www.iee.org.uk/publish/inspec/>)

Transport. Boston, Mass. : SilverPlatter.

TRANSPORT is a bibliographic database of transportation research and economic information. It combines two databases: TRIS (Transportation Research Information Services) from the U.S. Transportation Research Board, including over 500,000 bibliographic citations, most with abstracts, of research information on all surface transportation modes, air transport, and highway safety; ITRD (International Transport Research Documentation) from OECD containing 200,000 abstracts on highway research provided by OECD member countries. Up to 1998 it also included the now-discontinued TRANSDOC database from ECMT (European Conference of Ministers of Transport), containing abstracts of transportation economics literature.

SAE Highway Vehicles Safety Database on CD-ROM. Warrendale, Pa. : Society of Automotive Engineers.

Database for automotive safety research, containing detailed summaries of over 38,000 documents including technical papers from meetings and conferences, journal and magazine articles, standards, books, and research reports. Includes search software, fully-detailed summaries, bibliographical information, and networking capabilities. The Safety Database is also available by subscription, on the World Wide Web.

Databases - - Online

Australian Transport Index (ATRI). Melbourne, Vic.: ARRB Transport Research Ltd. Available from: www.informit.com.au/; Internet; Accessed on 7 March 2001.

Bibliographic database accessible by subscription through Informit Online. Contains over 120,000 records, from 1976 onwards, of transport-related publications including journal articles, conference papers, and holdings of other libraries with transport collections. It contains comprehensive coverage of Australian publications, as well as selective but extensive records of items published overseas. Covers road safety, transport economics, transport administration, intelligent transport systems, transport and environment, public transport, pavement research, highway engineering, traffic engineering, vehicle design and safety, and soil and rock mechanics.

Civil Engineering Database. Reston, Va.: American Society of Civil Engineers. Available from: <http://www.pubs.asce.org/cedbsrch.html>; Internet; Accessed on 1 March 2001.

“ASCE’S electronic information retrieval service to all its publications published since 1973. The CEDB provides access to over 80,000 bibliographic and abstracted records.”

Ei Compendex. Hoboken, N.J. : Engineering Index, Inc. 1970 to present
*Comprehensive interdisciplinary engineering database available through DIALOG or on the Web from WebSPIRS (www.silverplatter.com). Indexes about 2,600 international journals, conference proceedings and technical reports in all areas of engineering .
Also available on CD-Rom.. Over 4,630,000 records as of June 2000.*

Engineered Materials Abstracts. Bethesda, Md. : Cambridge Scientific Abstracts. 1986 to present.

Database available through DIALOG, and by subscription from Cambridge Scientific Abstracts site on the Web. A joint production of ASM International (U.S.) and Institute of Metals (U.K.), the database corresponds to the journal of the same name, which began publication in January 1986. Contains bibliographic records and abstracts for journal articles, dissertations, government reports, conference proceedings and books regarding the research, manufacturing practices, properties and applications of polymers, ceramics, and composites. Over 175,000 records as of March 1998.

Enviroline. Bethesda, Md.: Congressional Information Service, Inc. 1975 to present.

Database available through DIALOG. Provides indexing and abstracting for more than 1,000 international primary and secondary publications reporting on all aspects of the environment. These publications highlight such fields as management, technology, planning, law, political science, economics, geology, biology, and chemistry as they relate to environmental issues. Enviroline corresponds to the print Environment Abstracts. More than 204,000 records as of March 1998.

Environmental Bibliography. Santa Barbara, Calif.: International Academy at Santa Barbara, Environmental Studies Institute. 1973 to present.

Database available through DIALOG. Over 590,000 records as of March 1998.

Environmental Sciences & Pollution Management. Bethesda, Md. : Cambridge Scientific Abstracts. 1981 to present.

Bibliographic database available through CSA’s Web site (<http://www.csa.com>). Comprehensive coverage of the environmental sciences. Over 1,240,000 records as of September 2000.

Geoarchive. Didcot, Oxon, U.K. : Geosystems. 1974 to present.

Bibliographic database from DIALOG. GeoArchive is a comprehensive database covering all types of information sources in geoscience, hydroscience, and environmental science. GeoArchive provides international coverage of over 5,000 serials, books from over a 2,000 publishers, geological maps, and doctoral dissertations. It is indexed using Geosaurus, the hierarchical thesaurus that classifies references by subject, geography, and stratigraphy, and includes an alphabetical index of around 30,000 terms available from the producer. The printed publications Geotitles, Hydrotitles, Geoscience Documentation, and the Bibliography of Economic Geology are derived from GeoArchive. Over 628,000 records as of March 1998.

GEOBASE. New York, N.Y. : Elsevier Science. 1980 to present.

Over 897,000 records as of December 1999. Bibliographic database available through OCLC FirstSearch and DIALOG. Covers worldwide research literature in physical and human geography, earth and environmental sciences, ecology, and related disciplines. In addition to providing comprehensive coverage of the core scientific and technical periodicals, Geobase has a unique coverage of non-English language and less readily available publications. Over 2,000 journals are fully covered with an additional 3,000 having partial coverage. Over 2,000 books, monographs, conference proceedings, and reports are also included.

GeoRef. Alexandria, Ga. : American Geological Institute. 1785 to present (North American material); 1933 to present (worldwide material)

Bibliographic database available from DIALOG or from its own Web site (<http://georef.cos.com/>). Covers worldwide technical literature on geology and geophysics. GeoRef is international in coverage with about 40% of the indexed publications originating in the United States. The database includes current coverage of over 3,500 journals as well as books and book chapters, conference papers, government publications, theses, dissertations, reports, maps, and meeting papers. Over 2,100,000 records as of March 1998.

Highway Vehicles Safety Database. Reston, Va.: Society of Automotive Engineers.

Available from:

<http://www.sae.org/products/webcd/safeweb.htm>; Internet; Accessed on 7 March 2001.

Database for automotive safety research, containing detailed summaries of over 38,000 documents including technical papers from meetings and conferences, journal and magazine articles, standards, books, and research reports. Includes search software, fully-detailed summaries, bibliographical information, and networking capabilities. The Safety Database is also available on CD-ROM.

INSPEC. London, Eng.: Institution of Electrical Engineers. 1969 to present

Bibliographic database available through DIALOG and several other online hosts. (Information about accessing the database can be found on INSPEC's Web site at <http://www.iee.org.uk/publish/inspec/>.) Covers literature on all aspects of physics, electronics and computing, scanning papers published in approximately 4,200 journals, 1000 conferences, books, reports and dissertations each year. Subject coverage includes: physics; circuits, components and devices; telecommunications; superconductors; electro-optics and lasers; power systems; microelectronics; computer hardware; control systems and theory; artificial intelligence; software engineering; office automation; robotics; medical electronics; information science. INSPEC is also available on CD-ROM.

ITRD. Paris, France: OECD Road Transport Research Programme. 1972 to present. *ITRD = International Transport Research Documentation. Formerly known as IRRD (International Road Research Database). Bibliographic database available through the STN host system, or on the World Wide Web using STN Easy (see <http://www.fiz-karlsruhe>). Contains citations to worldwide literature, current research projects, and computer programs on all aspects of road research, transport, and traffic planning. Records contain bibliographic data, abstracts, and indexing information. The file is in English, with some abstracts and keywords in German, French or Spanish. Sources include approximately 850 journals from 40 countries as well as books, reports, dissertations, patents, standards and specifications, conference proceedings. Subjects covered are design of roads and related structures; materials, soil and rock mechanics; earthworks, drainage of soils; construction of pavements, bridges, and tunnels; road maintenance, traffic and transport; vehicles, accident studies; economies and administration. More than 300, 000 citations as of May 2000.*

National Technical Information Service. Alexandria, Va.: National Technical Information Service. Available from: <http://www.ntis.gov/>; Internet; Accessed on 27 February 2001. *The NTIS database is the central source for accessing U.S. government-funded scientific, technical, and engineering information. NTIS supplies publications from United States government agencies and departments, as well as publications from Canada, Europe and Japan. Documents can be supplied in print, microfiche, or electronic formats. The NTIS collection contains over 3 million items, and its Web site incorporates a searchable catalog of items received since 1990.*

PATH (Partners for Advanced Transit and Highways). Berkeley, Calif.: University of California, Institute of Transportation Studies. Available from: <http://www4.nationalacademies.org/trb/tris.nsf/web/path>; Internet; Accessed on 27 February 2001.

Bibliographic database available free on the World Wide Web, containing references to all aspects of Intelligent Transportation Systems, ranging from historical materials dating back to the 1940s to topics of current and international research and applications. It reflects a wide coverage of information on ITS, including monographs, journal articles, conference papers, technical reports, theses, web sites, and selected other media. The Database currently contains over 20,000 records with abstracts. Full bibliographic information is provided, and URLs are included for those documents which are available in full-text on the Web. The database is maintained by the Harmer E. Davis Transportation Library at the Institute of Transportation Studies, University of California at Berkeley, and the Web site is administered by the Transportation Research Board.

Pollution Abstracts. Bethesda, Md. : Cambridge Scientific Abstracts. 1970 to present. *Database available through DIALOG. Pollution Abstracts is a leading resource for references to environmentally related literature on pollution, its sources, and its control. The database covers: air pollution, environmental quality, noise pollution, pesticides, radiation, solid wastes, and water pollution. Over 236,000 records as of March 1998.*

Searchable Abstracts of ACI Publications. Farmington, Mich.: American Concrete Institute. Available from: <http://www.aci-int.org/>; Internet; Accessed on 1 March 2001. *Free database providing abstracts of ACI publications back to 1931.*

Transportation Association of Canada Library Catalogue. Ottawa, Ont.: Transportation Association of Canada. Available from: <http://www.tac-atc.ca/tacqbe.htm>; Internet; Accessed on 7 March 2001.

TRANweb. Evanston, Ill.: Northwestern University Transportation Library. Available from: <http://tran.library.northwestern.edu/>; Internet; Accessed as of 27 February 2001.

“The TRAN File contains bibliographic and location information for magazine articles, conference papers, and other material on transportation and law enforcement topics. Coverage in the online file generally extends back through 1979 and for scholarly journals generally back through 1976. Other articles on topics of current interest, e.g., the third Chicago Airport or articles issued through the Transportation Center or the Center for Public Safety (nee, The Traffic Institute), published prior to 1979, have been added to the file.”

TRB Publications Index. Washington, D.C.: Transportation Research Board. Available from: <http://www4.nationalacademies.org/trb/onlinepubs.nsf/web/index>; Internet; Accessed on 7 March 2001.

A searchable index of Transportation Research Board (TRB) publications. Contains over 21,000 annotated citations for all TRB and Strategic Highway Research

Program (SHRP) publications from the mid 1970s until the present. All NCHRP and TCRP publications, Special Reports, Circulars, TR News, Conference Proceedings, and Records are included. Each individual paper in the Transportation Research Records, Conference Proceedings, Circulars, and TR News is indexed. Links are provided from citations in the index directly to TRB's Electronic Bookstore, a form for ordering out of print publications, or the full text electronic documents.

TRB Research in Progress. Washington, D.C.: Transportation Research Board. Available from: <http://www.dcddata.com/trip/>; Internet; Accessed on 7 March 2001.

Searchable database of current research sponsored or conducted by the U.S. Transportation Board.

TRIS. Washington, D.C.: Transportation Research Board, 1968 to present.

TRIS = Transportation Research Information Service. Bibliographic database available for subscription or fee from SilverPlatter (as part of the Transport CD-ROM) or DIALOG, and free on the World Wide Web. TRIS is the prime source in all areas of transportation research. Produced and maintained since 1968 by the Transportation Research Board at the National Academy of Sciences, TRIS is the world's largest and most comprehensive bibliographic source for transportation research covering books, journal articles, technical reports and other media. It gives coverage of the literature from the 1960s to the present, with some coverage of prior years. As of 2001 it contains over 500,000 records and grows by almost 25,000 new records annually. Over 500,000 records as of June 2000.

TRIS Online. Washington, D.C.: Transportation Research Board. Available from: <http://199.79.179.82/sundev/search.cfm>; Internet; Accessed 1 March 2001.

TRIS Online is the Web version of the Transportation Research Information Service. It contains the full TRIS database, with over 2,200 links to full-text documents and many records contain links for direct ordering of reports from the National Technical Information Service and the Transportation Research Board. TRIS Online also contains the PATH database and provides links to the ITRD (International Transport Research Documentation) database for further coverage of international transportation. TRIS Online is a component of the National Transportation Library, providing a record of the transportation research literature of the latter half of the 20th century and continuing into the 21st.

United States. Office of Highway Policy Information. Washington, D.C.: Federal Highway Administration. Available from: <http://www.fhwa.dot.gov/ohim/>; Internet; Accessed on 8 March 2001.

Highway information and statistics collected from federal, state and local sources. .

Internet Resources - - Websites Maintained by Corporate Bodies

American Association of State Highway and Transportation Officials. **AASHTO Materials Reference Library**. Available from: <http://patapsco.nist.gov/aashto/amrl/services/amrl.html>; Internet; Accessed on 27 February 2001.

Information on laboratory testing of asphalt, aggregates, and other road materials, including soils.

American Association of State Highway and Transportation Officials. **AASHTO Transportation Center of Excellence**. Available from: <http://www.transportation.org/aashto/home.nsf/FrontPage>; Internet; Accessed on 27 February 2001.

The Web site of the American Association of State Highway and Transportation Officials.

Advanced Highway Maintenance and Construction Technology Center. **Advanced Highway Maintenance and Construction Technology Center (AHMCT)**; Available from: <http://www-ahmct.engr.ucdavis.edu/>; Internet. Accessed on 27 February 2001.

The Advanced Highway Maintenance and Construction Technology Center (AHMCT), which is jointly managed by the University of California, Davis and the California Dept. of Transportation, investigates the application of advanced automation and robotics to highway maintenance and construction. The site includes a searchable list of technical reports and article abstracts.

Advocates for Highway and Auto Safety. Available from: <http://www.saferoads.org/>; Internet; Accessed on 27 February 2001.

Advocates for Highway and Auto Safety is an alliance of consumer, health and safety groups and insurance companies and agents working together to make America's roads safer. Advocates encourages the adoption of federal and state laws, policies and programs that save lives and reduce injuries.

American Consulting Engineers Council. Available from: <http://www.acec.org/>; Internet; Accessed on 27 February 2001.

American Highway Project Corporation. **American Highway Project**. Available from: <http://www.highwayproject.org/>; Internet; Accessed on 27 February 2001.

Through photography and oral history interviews, this project plans to preserve and document the disappearing road culture of America. Includes a gallery of photographs featuring roadside landmarks such as motels, gas stations, theaters, and other oddities found along our highways. A collection of links leads to old billboards,

highways, diners, tourist attractions, drive-in theaters, road maps, and other gems of the American road.

American Road & Transportation Builders Association (ARTBA). Available from: <http://www.artba-hq.org/>; Internet; Accessed on 27 February 2001.

ARTBA is a national federation of private firms, public agencies and associations with a primary goal of advocating strong federal investment in transportation infrastructure. ARTBA promotes market development of safe efficient transportation systems. This site gives information about the Association, its organization, services and work. Services available include a detailed calendar of events, an Online Buyers' Guide (full text), and other publications, such as the Transportation Construction Industry Product Catalog which can be downloaded in pdf format. Other publications are available online to members only.

Asphalt Institute. Available from: <http://www.asphaltinstitute.org/>; Internet; Accessed on 27 February 2001.

This site contains information about the Asphalt Institute and its work. The Institute develops educational materials to help ensure the proper use of asphalt and conducts courses and seminars on various asphalt subjects, and a schedule is available. A FAQ section provides information on the questions that arise most often in the use of asphalt, and details of areas of current research are given. The site also features papers giving environmental information on the use of asphalt. Some sections of the site are open to members only.

Associated General Contractors (AGC) of America. Available from: <http://www.agc.org/index.asp>; Internet; Accessed on 27 February 2001.

Bundesanstalt für Strassenwesen (BASt). Available from: <http://www.bast.de/>; Internet; Accessed on 27 February 2001.

German governmental research organization providing multi disciplinary support for the civil engineering and environmental engineering. Its Website, also available in an English version, contains a searchable database of the organization's technical and research reports.

California. Dept. of Transportation. **California Highway Conditions.** Available from: <http://www.dot.ca.gov/hq/roadinfo/>; Internet; Accessed on 27 February 2001.

Current information on California road conditions, including construction, closures, and restrictions. Searchable by highway number.

Centre de recherches routières (Belgian Road Research Centre). Available from: <http://www.brrc.be/crr/crr-intro.htm>; Internet; Accessed on 7 March 2001.

The Belgian Road Research Centre works in highway design, construction and maintenance, as well as road safety and environmental issues. The Web site, available in French and English versions, gives information on current research, the Centre's publications, and links to sites of related interest.

Centro de Estudios y Experimentacion de Obras Publicas (CEDEX). Available from: <http://www.cedex.es/default.htm>; Internet; Accessed on 27 February 2001.

Spanish research organization founded in 1957. Provides multi disciplinary support for civil engineering and environmental engineering projects. The Website is available in an English version and contains a searchable database of CEDEX technical and research reports.

Construction Market Research. Construction Aggregates and Materials. Available from: <http://www.aggregatemarket.com/aggregates.htm>; Internet; Accessed 5 March 2001.

European Asphalt Pavement Association (EAPA). Available from: <http://www.eapa.org/>; Internet; Accessed on 27 February 2001.

EAPA, based in the Netherlands, is the industry association representing European manufacturers of bituminous mixtures and companies engaged in asphalt road construction and maintenance. The site provides information about asphalt, with statistics, and a list of publications.

Institute of Transportation Engineers. Available from: <http://www.ite.org/>; Internet; Accessed on 27 February 2001.

International Road Federation. Available from: <http://www.irfnet.org/>; Internet; Accessed on 27 February 2001.

The International Road Federation is a non-profit, non-political service organization which seeks to encourage better road and transportation systems worldwide and to assist in the application of technology and management practices that will produce maximum economic and social return from national road investments. Information is available about the Federation, its history, organizational structure, and activities. Notes are available about current programs of the IRF, publications, products, and forthcoming conferences, and the IRF What's New section contains articles about current developments.

International Slurry Surfacing Association. Available from: <http://www.slurry.org/>; Internet; Accessed on 27 February 2001.

Information about slurry and microsurfacing, its history, purpose, uses, types and application is available. Also provides information about the International Slurry Surfacing Association, its organization and publications, and the full text of the monthly ISSA Report.

International Society for Asphalt Pavements. Available from: <http://www.asphalt.org/>; Internet; Accessed on 27 February 2001.

ISAP is a volunteer organization of professionals and experts which aims to promote asphalt pavement technology exchange on a worldwide basis, often in cooperation with other organizations sharing mutual interests. This site includes information about the Society, its membership and activities. Indexes to papers presented at the International Conferences on Asphalt Pavements are available, together with details of forthcoming events and news items.

Interstate Highways. Available from: <http://www.ihoz.com/ilist.html>; Internet; Accessed on 27 February 2001.

Searchable list of U.S. Interstate Highways, with numbers of miles covered, connecting routes, major cities crossed, and, in some cases, a history.

ITS America. Access ITS. Available from: <http://www.itsa.org/>; Internet; Accessed on 27 February 2001.

Laboratoire Central des Ponts et Chaussées. Available from: <http://lpweb.lcpc.fr/LCPC/>; Internet; Accessed 27 February 2001.

French government organization performing research for France's state and local authorities in civil engineering, transport, and environmental engineering. The site is available in an English version and provides a searchable database of the organization's research and reports.

National Scenic Byways Online. Available from: <http://www.byways.org/pages/index.html>; Internet; Accessed 27 February 2001.

To find the most interesting scenic routes for a road trip, this site is the one. Grades roads by criteria that include archaeological, cultural, historic, natural, scenic, and recreational qualities. Side trips are suggested, with lots of other travel information, and links to related sites. Sponsored by the U.S. Federal Highway Administration.

National Asphalt Pavement Association. Available from: <http://www.hotmix.org/>; Internet; Accessed on 28 February 2001.

National Center for Asphalt Technology Available from: <http://www.eng.auburn.edu/center/ncat/>; Internet; Accessed on 28 February 2001.

The National Center for Asphalt Technology (NCAT), created through an agreement between the National Asphalt Pavement Association (NAPA) Education Foundation and Auburn University, aims to assist the Hot Mix Asphalt (HMA) industry in the U.S. This site gives details of the Center's activities in the areas of research and education. Includes a list of research publications and research-in-progress.

National Transportation Library (U.S.). Available from: <http://www.bts.gov/smart/>; Internet; Accessed on 28 February 2001.

Created in 1998 by the U.S. Dept. of Transportation's Bureau of Transportation Statistics, the National Transportation Library is a collection of electronic full-text documents available via the Internet and CD-Rom. The library provides online access to more than 2,000 full-text documents including documents drawn from more than 30 State DOT and University web sites covering all aspects of transportation in the United States.

North Carolina State University. Center for Transportation and the Environment.

Available from: <http://itre.ncsu.edu/cte/wildlife.htm>; Internet; Accessed on 28 January 2001.

Includes EnvRIP, a database of environmental research in progress, and Wildlife Ecology in Transportation, a bibliographic database of literature and Web sites on wildlife issues in transportation.

Oak Ridge National Laboratory. Center for Transportation Analysis. Available from: <http://cta.ed.ornl.gov/>; Internet; Accessed on 27 February 2001.

"The Center for Transportation Analysis (CTA) in the Oak Ridge National Laboratory conducts innovative, cost-effective research and development on transportation energy and environmental issues, national transportation planning and policy, transportation systems engineering, and military transportation and logistics. CTA focuses on multi modal national and international transportation systems." The Web site gives access to publications of the CTA's staff, and links to other sites of related interest.

Rand McNally and Company. Guide to Road Construction. Available from:

<http://www.randmcnally.com/mmc/tools/roadConstructionSearch.jsp>; Internet; Accessed on 27 February 2001.

"Use Rand McNally's exclusive database of up-to-date construction information to route yourself around potential trouble spots." Searchable by U.S. state or Canadian province and type of road for general synopses of road repair projects, including anticipated completion dates.

Road Construction Network. Available from: <http://www.roadconstruction.com/>; Internet; Accessed on 28 February 2001.

The Road Construction Network is an Internet information service made available through the Mobility Network Group in cooperation with the European Pavement and Asphalt Association (EAPA) and the CROW in Maastricht, the Netherlands.

The site contains industry news, a searchable database of full text documents, an events diary of world-wide road construction congresses, a database of road construction professionals, and a virtual marketplace of road construction

organizations and companies grouped by products/services. Also includes Urban Mobility Professional (UMP), a free monthly electronic magazine presenting the latest news items in the Urban Mobility branch (articles, press releases, experts, Internet links etc.).

Surface Transportation Policy Project (STPP). Available from: <http://www.transact.org/>; Internet; Accessed on 16 March 2001.

The STPP is an independent organization that endeavors “to ensure that transportation policy and investments help conserve energy, protect environmental and aesthetic quality, strengthen the economy, promote social equity, and make communities more livable”. The site contains a large collection of reports on the social, economic and environmental impact of highway design and construction.

Swedish National Road and Transport Institute. Available from: <http://www.vti.se/edefault.asp>; Internet; Accessed on 2 March 2001.

Government research institute. Its site provides access to research reports and electronic journals in transportation, road construction and the environmental impact of transportation projects in Sweden.

Swedish National Road and Transport Institute. Library and Information Centre.

Transguide. Available from: <http://www.transguide.org>; Internet; Accessed on 2 March 2001.

Transguide provides access to five library catalogs, including TRAX, the catalog of the Institute’s library. It is the largest Nordic transportation research database, containing approximately 90,000 references to reports, conference proceedings, books, standards, statistics and more. Include a calendar of upcoming conferences, covering approximately 150 events. As of March 2001 the interface and much of the content is in Swedish, but an English interface is being developed.

TranSafety, Inc. **USroads.com.** Available from: <http://www.usroads.com/>; Internet; Accessed on 28 February 2001.

TranSafety, Inc. is an independent source for publications and information on road transportation and safety. This Web site offers full text archives of the Road Management and Engineering Journal and the Road Injury Prevention and Litigation Journal, and an archive of full-text articles. There are also links to transportation and travel-related Web sites.

Transportation Association of Canada. **Resources.** Available from:

<http://www.tac-atc.ca/resource/resource.htm>; Internet; Accessed on 28 February 2001.

This page from TAC’s Web site provides access to several highway-related databases, including the TAC Library catalog and the Canadian Surface Transportation Research database.

Transportation Research Laboratory. Available from: <http://www.trl.co.uk/index.htm>; Internet; Accessed on 28 February 2001.

TRL is an independent organization for research in surface transportation, working with the public, private and independent sectors of the UK and world-wide. TRL's Web site provides catalogs of the organization's research and technical reports.

Turner-Fairbank Highway Research Center. Available from: <http://www.tfrc.gov/>; Internet; Accessed on 28 February 2001.

The Turner-Fairbank Highway Research Center is a federal research facility in Virginia, USA. It is the home of the Federal Highway Administration's Office of Research, Development, and Technology. The Center provides FHWA and the world highway community with advanced research and development related to new highway technologies. The Web site includes a library of publications and research materials as well as full-text periodicals, including Focus (which promotes Strategic Highway Research Program products and other highway technologies); Public Roads; and Research and Technology Transporter (for the latest information on the Federal Highway Administration's research).

U.S. Dept. of Energy. **DOE Information Bridge.** Available from: <http://www.osti.gov/bridge/>; Internet; Accessed on 28 February 2001.

Provides free access to full-text and bibliographic records of Dept. of Energy research and development reports in physics, chemistry, materials, biology, environmental sciences, energy technologies, engineering, computer and information science, and renewable energy.

U.S. Federal Highway Administration. Available from: <http://www.fhwa.dot.gov/>; Internet; Accessed on 27 February 2001.

The Web site of the FHWA.

U.S. Joint Program Office for Intelligent Transportation Systems. **Intelligent Transportation Systems.** Available from: <http://www.its.dot.gov/>; Accessed on 27 February 2001.

U.S. Federal Highway Administration. **Local Technical Assistance Program (LTAP)** Available from: <http://www.ltapt2.org/>; Internet; Accessed 27 February 2001.

Describes the work of the Local Technical Assistance Program, a FHWA program that helps to supply innovative road maintenance technology to local, rural and tribal authorities.

University of Michigan Transportation Research Institute (UMTRI). Available from: <http://www.umtri.umich.edu/>; Internet; Accessed on 28 February 2001.

UMTRI is a multi-disciplinary transportation research center. Its Web site includes: UMTRI Bibliography, a searchable database of the institute's publication; UMTRI Library Catalog, a searchable database of the UMTRI library collections; Work in Progress, describing current UMTRI research projects; and a collection of downloadable software.

Internet Resources - - Websites Maintained by Individuals

Ballard, Michael. **Historical Highways of Central and Southern California.** Available from: <http://www.scvresources.com/highways/highway.htm>; Internet; Accessed on 27 February 2001.

Detailed information about the roads and highways in the Santa Clarita area north of Los Angeles. Contains detailed virtual tours of US 99 and US 6 in this area and also the history of other local roads, and some historic maps.

Cooper, Casey. **Historic California U.S. Highways.** Available from: <http://gbcnet.com/ushighways/>; Internet; Accessed on 27 February 2001.

Famous highways that end in or traverse California. Routes 66 and 9 are covered, plus pictures and text for many other lesser known Federal roads, from US6 to 466. With a history of the system, a highway glossary, and annotated links to related Web pages.

Faigin, Daniel P. **California Highways.** Available from: <http://www.pacificnet.net/~faigin/CA-HWYS/>; Internet; Accessed on 27 February 2001.

"These pages provide information on every state numbered route that was ever defined in California. This includes the route's current definition, as well as historical information and all known names." Not only that, but the site defines and gives history on the various types of roads, charts highway number changes, and provides a chronology of the growth of the highway system. There's a separate page for El Camino Real, "The King's Road." The State Highways section has statistics for the state and for each county.

Field, Andrew, Jeremy Lance and Alex Nitzman. **AARoads.** Available from: <http://www.aaroads.com>; Internet; Accessed 7 March 2001.

Comprehensive site that covers all aspects of U.S. highways.

Field, Andrew. **Andy's Highway Kickoff Page.** Available from: <http://www.aaroads.com/kick-off/highway.html>; Internet; Accessed 7 March 2001.

A directory of Web sites that deal with all aspects of highway history, science and lore.

Lin, James. **Highway Route Markers.** Available from:
<http://www.ugcs.caltech.edu:80/~jlin/signs/>; Internet; Accessed on 27 February 2001.
Highway sign graphics from the U.S.A., Canada and around the world.

Lin, James. **The Lincoln Highway: an Introduction to America's First Transcontinental Road for the Automobile.** Available from: <http://www.ugcs.caltech.edu/~jlin/lincoln/>;
Internet; Accessed 27 February 2001.

Moeur, Richard C. **Trafic stuf.** Available from:
<http://members.aol.com/rcmoeur/trafstuf.html>; Internet; Accessed on 28 February 2001.
The author of this site works for Arizona Dept. of Transportation. The main section of the site is a Manual of Traffic Signs. There are several other pages with subjects ranging from bicycling in Arizona to Historic Route 66 signing, and extensive links to other road related sites.

Oglesbly, Scott. **Kurumi's Humble House of Roadsdm.** Available at:
<http://www.kurumi.com/roads/index.html>; Internet; Accessed 27 February 2001.
A site for "road geeks". Includes a comprehensive Connecticut Highways page, a listing of every three digit Interstate ("3di"), and a field guide to interchanges.

Salek, Matthew. **Matthew Salek Highway.** Available from:
<http://members.nbc.com/msalek/>; Internet; Accessed 27 February 2001.
Good coverage of Colorado's highways.

Sloman, Jessica. **Roadside Architecture in 1950s America: Reflections of Society.**
Available from: <http://www2.kenyon.edu/people/slomanj/main.htm>; Internet; Accessed on 28 February 2001.
An exploration of "roadside architecture, as characterized by billboards, diners, motels, and gas stations." The site discusses "how the production of the interstate [highway] changed the face of the roadside landscape." Includes information about the Dixie Highway and Interstate 75 (Ontario, Canada, to Miami, Florida); Burma-Shave signs; Levittown (the introduction of suburbia); and new travel destinations, made more easily accessible by the development of the highway system. Includes a bibliography.

Smith, Brian. **California Traffic Signs.** Available from: <http://caltrafficsigns.cjb.net/>;
Internet; Accessed on 27 February 2001.
California's old road signs. Tells how the Automobile Club of Southern California and the California State Automobile Association placed these signs before the State decided to put them up.

Stanek, David. **California Highway Routes**. Available from:
<http://www.engr.ucdavis.edu/~mnbagley/cahwys/>; Internet; Accessed on 27 February 2001.
Describes in detail the routing of California's highways.

Sterbenz, James P. G. **Road Signalling and Highway Route Page**. Available from:
<http://www.cerc.wustl.edu/~jpgs/transport/road/na/na.html>; Internet; Accessed on 28
February 2001.
*Listing of U.S. highway numbering and signaling systems. The United Kingdom and
Ireland are also listed.*

VIII. Bibliographies

compiled by Paul Atwood
Institute of Transportation Studies
University of California, Berkeley

Arnold, E. D. **Ramp Metering : A Review of the Literature**. Charlottesville, Va.: Virginia
Transportation Research Council, 1998. 21 p.

Blair, Beryl. **Road Charging in the 90's : An Overview and Guide to the Literature**. London,
Eng: The British Library Science Reference and Information Service, 1994. 88 p.

Green, Chris. **Traffic Noise : A Bibliography on Surface Transportation Noise, 1979-1986**.
Letchworth, Eng.: Technical Communications, 1987. 131 p.
*Updates G. Vulkan's Traffic Noise : A Review and Bibliography on Surface
Transportation Noise, 1964-1978 (cited below).*

Hoy, Suellen M. and Michael C. Robinson. **Public Works History in the United States : A Guide
to the Literature**. Nashville, Tenn.: American Association of State and Local History, 1982. 477 p.
Includes a chapter on roads, streets and highways.

International Federation of Landscape Architects. **Roads in the Landscape : Environmentally
Sensitive Location and Design : A Bibliography**. S.1.: The Federation, 1987. 44 p.

Krummes, Daniel C. **Sources of Information in Transportation. Part 8: Highways**. Monticello,
Ill.: Vance Bibliographies, 1990. 4th ed. 67 p.
*Precursor to the current Sources project; sponsored by the Special Libraries
Association, Transportation Division. Contains 513 citations, most covering the
period 1985-1990. Additional Canadian sources supplied by Diane Smith.*

Krummes, Daniel C. **Trip Generation : A Bibliography**. Berkeley, Calif.: Institute of
Transportation Studies, University of California, 1985. 25 p. (Library Reference No. UCB-ITS-LR-
85-1).

Lindley, Jeffrey A. **Annotated Bibliography of Federal Highway Administration Freeway
Operations R&D Reports, 1971-1986**. Mclean, Va.: Federal Highway Administration, 1987. 70 p.

Contains brief abstracts of FHWA sponsored reports and articles on freeway operations in the following areas: geometric design aspects, hardware, freeway management techniques, incident management, high occupancy vehicle priority techniques, diamond interchange control and human factors.

Miller, E. Willard and Ruby M. Miller. **Highway Transportation : Management of Traffic, Economic Aspects, Legislation, Types of Highways.** Monticello, Ill.: Vance Bibliographies, 1987. 37 p. (Public Administration Series: Bibliography #P 2118).

Miller, E. Willard and Ruby M. Miller. **Highway Transportation: Operations, Improvements, Safety.** Monticello, Ill.: Vance Bibliographies, 1987. 55 p. (Public Administration Series: Bibliography #P 2119).

National Technical Information Service. **Highway Beautification.** Tolland, Conn: NERAC, Inc., 1995.

The bibliography contains citations concerning highway beautification and assessment of its environmental impact. (Latest citations from the NTIS Bibliographic Database – updated on an irregular basis).

National Technical Information Service. **Highway Markings.** Tolland, Conn.: NERAC, Inc., 1996.

The bibliography contains citations concerning the development and assessment of highway marking and delineation materials for traffic safety and accident prevention. (Latest citations from the NTIS Bibliographic Database – updated on an irregular basis).

National Technical Information Service. **Highway Ramp Control.** Tolland, Conn.: NERAC, Inc., 1996.

The bibliography contains citations concerning ramp design, merging control, ramp metering, and ramp use. (Latest citations from the NTIS Bibliographic Database – updated on an irregular basis).

National Technical Information Service. **Highway Safety Structures.** Tolland, Conn.: NERAC, Inc, 1995.

The bibliography contains citations concerning the design, development, testing, and evaluation of highway safety structures. (Latest citations from the NTIS Bibliographic Database – updated on an irregular basis).

National Technical Information Service. **Highway Traffic Detectors and Detection.** Tolland, Conn.: NERAC, Inc., 1997.

The bibliography contains citations concerning techniques and equipment used in the detection of highway traffic. (Latest citations from the NTIS Bibliographic Database – updated on an irregular basis).

Shepard, Margaret E. **Literature Review on Automobile Trip Characteristics.** Chicago, Ill.: Council of Planning Libraries, 1987. 76 p. (CPL Bibliography No. 202).

Stewart, Alva W. **The Interstate Highway System : A Bibliographic Survey.** Monticello, Ill.: Vance Bibliographies, 1982. 12 p. (Public Administration Series: Bibliography #P 981).

Sumner, R. et al. **A Freeway Management Handbook : Annotated Bibliography.** Washington, D.C.: Federal Highway Administration, 1984. 213 p.

Extensive bibliography highlighting such areas as freeway operations, ramp metering incident detection, priority lanes, motorist information systems, and traffic surveillance systems.

Vulkan, G. and A. Gomersall. **Traffic Noise : A Review and Bibliography on Surface Transportation Noise, 1964-1978.** London, Eng.: Greater London Council, 1979. 1 vol.

Includes major sections of traffic noise, vehicle design for noise abatement, highway design for noise reduction, legislation, and social aspects of noise control.