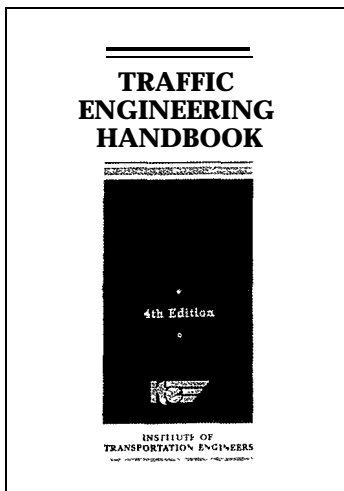


Institute of Transportation Engineers

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## Traffic Engineering Handbook, 4th ed.

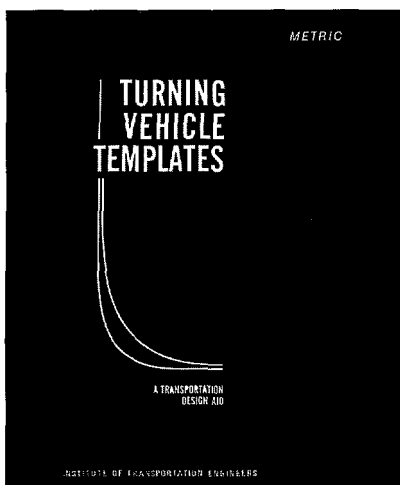
Provides professional engineers with a basic day-to-day source of reference on the principles and proven techniques in the practice of traffic engineering. The material presented is not intended to serve as a statement of standards, but rather as guidelines for the practicing professional engineer. Edited by James L. Pline. ITE/Prentice-Hall, 1991. 481 pp., casebound. *Publ. No. TB-010 \$82.*

## The Traffic Safety Toolbox: A Primer on Traffic Safety

A compilation of traffic safety information on a variety of subjects providing ideas and concepts for effective traffic safety improvements. The information represents the personal knowledge, experience and expertise of the chapter author in suggesting ways that traffic safety may be improved. This combination of resources should make this publication a valuable document, useful toward improving traffic safety and saving lives. ITE, 1993. 257 pp. *Publ. No. LP-279 \$45 (\$35).*

## Transportation Planning Handbook

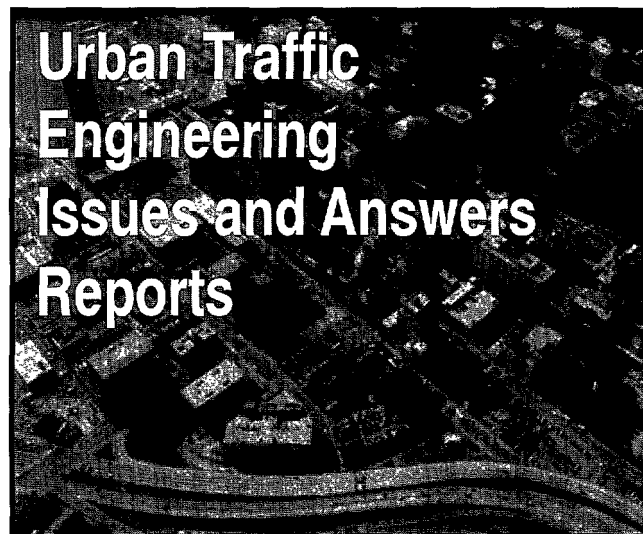
A companion publication to ITE's Traffic Engineering Handbook, but is also a handy standalone reference for the transportation professional involved in the broader issues of traffic engineering and transportation planning. Written for both engineering and planning disciplines. ITE, 1992. 513 pp. *Publ. No. TB-011 \$86.*



## Turning Vehicle Templates--Metric System, Revised 1993

These templates will help you develop and evaluate geometric design alternatives, as well as prepare plans to accommodate AASHTO basic design vehicles. Includes 34 templates for the following design vehicles: extra-large semitrailer truck (WB-18),

large semitrailer (WB-15), small semitrailer (WB-12), bus (B-12), and single-unit truck (SU-9) at the scales of 1:250 and 1:500; and passenger cars (P and Pm) at the scale 1:250. Printed on heavy-ply, transparent mylar and packaged in a convenient-to-use five-ring binder. Includes instruction manual. ITE, 1993 *Publ. No. LP-022A \$425.*



## Urban Traffic Engineering Issues and Answers Executive Summary

A summary of the findings of a three-year study by ITE and FHWA on three aspects of the traffic engineering community: status and effectiveness, operations and maintenance, and education and training. These aspects are discussed in detail in reports available from ITE (see below). ITE/FHWA, 1995. 4 pp. *Publ. No. IR-085. \$10 (\$5).*

## Status and Effectiveness of Urban Traffic Engineering Agencies

Presents the current status, functions and structures of urban traffic agencies across the United States. Also reports on current and future needs for staffing and funding for these agencies. Contains recommendations on improving the effectiveness of urban traffic engineering agencies. ITE/FHWA, 1995. 46 pp. *Publ. No. IR-082. \$25 (\$20).*

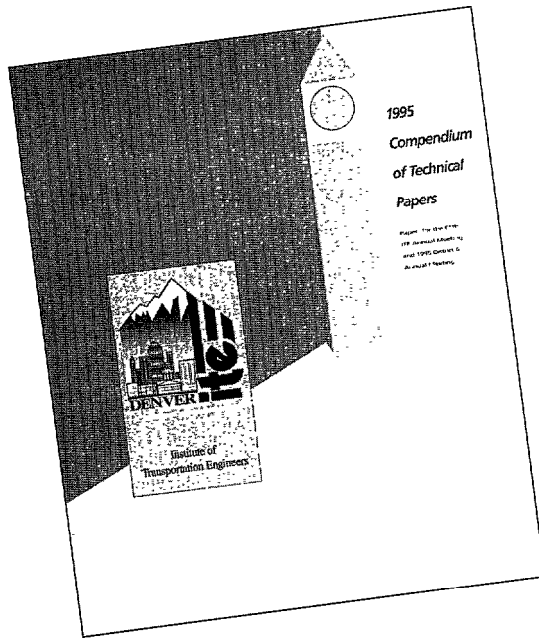
## Operations and Maintenance of Electronic Traffic Control Systems

Presents detailed information and recommendations on a broad range of issues affecting the operations and maintenance of computerized signal systems and freeway advanced traffic management systems. Topics include funding, staffing, organizational structure, personnel, standards, liability, institutional cooperation, procurement, and education. Includes findings and recommendations generated from white papers, a national conference, surveys of agencies, a literature search, and expert panels. ITE/FHWA, 1995. 122 pp. *Publ. No. IR-083. \$30 (\$25).*

## Urban Traffic Engineering Education and Training Needs

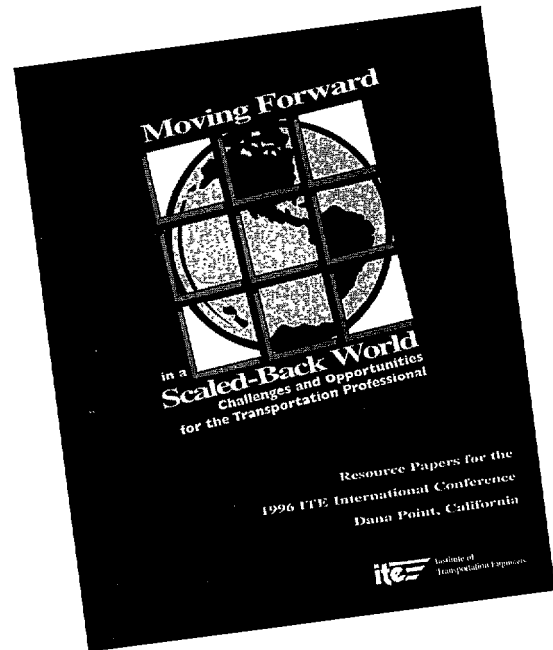
Contains findings and recommendations on education and training for the urban traffic engineering community. Current educational and training requirements for urban traffic engineering agency staff are presented, as well as areas where additional education is needed, effectiveness of training methods, obstacles that agencies face in obtaining needed training, and a recommended core curriculum for traffic engineers. ITE/FHWA, 1995. 56 pp. *Publ. No. IR-084. \$30 (\$25).*

# ***Useful Tools from the ITE Bookstore***



## **1995 Compendium of Technical Papers**

Papers from the 65th Annual Meeting of the Institute of Transportation Engineers, held in Denver, Colorado, August 5-8, 1995. Papers are arranged by these tracks: Operations and Design; Planning; Transit/TDM; Human Factors; and the Transportation Profession. Papers for the District 6 Annual Meeting also are included. ITE, 1995. *Publ. No. PP-048. \$75 (\$65).*



## **Resource Papers for the 1996 ITE International Conference**

The theme of the conference was "Moving Forward in a Scaled Back World: Challenges and Opportunities for the Transportation Professional." This material is drawn primarily from written papers developed for the 1996 conference. Papers are arranged by these tracks: Taking Advantage of Advanced Technologies; Enhancing Existing Transportation Systems; Transportation Organizations and Programs-Doing More with Less. ITE, 1996. 231 pp. *Publ. No. PP-052 \$50 (\$35).*

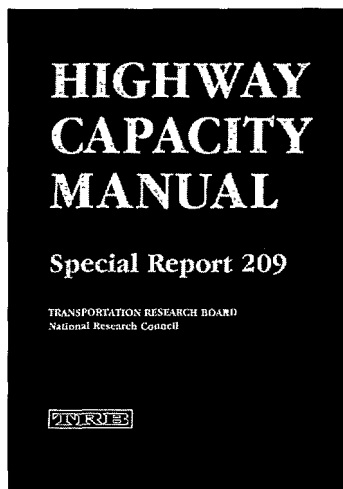
*Members prices will appear throughout this catalog in parentheses.*

## Design and Safety of Pedestrian Facilities

This Proposed Recommended Practice discusses guidelines for the design and safety of pedestrian facilities to provide safe and efficient opportunities for people to walk near streets and highways. Prepared by ITE Technical Council Committee 5A-5, Charles V. Zegeer, chair. ITE, 1995. 65 pp. *Publ. No. RP-026* \$30 (\$25).

## Determining Vehicle Signal Change and Clearance Intervals

Presents some of the various methods used to determine the lengths of yellow change intervals and red clearance intervals. An extensive reference and bibliography section is also provided. By ITE Technical Council Committee 4TF-1, chaired by Beverly A. Thompson. ITE, 1994, 13 pp. *Publ. No. IR-073* \$15 (\$10).



## Highway Capacity Manual

This latest update of the third edition includes updated chapters 1, 2, 3, 5, 7, 9, 10 and 11. The revisions include changes in analysis procedures for signalized and unsignalized intersections, freeways, ramps and arterial streets. The manual also provides a collection of techniques for estimating the capacity and level of service of freeways, highways and streets, and

chapters on transit, pedestrian and bicycle capacity. TRB, 1985. *Publ. No. LP-102B* \$80.

## Implementing Effective Travel Demand Management Measures: A Series on TDM

Clarifies the role of and provide the most comprehensive, accurate and useable guidance on TDM. The user will find in this report a set of materials, statistics, guides and tools that should be of significant value in not only increasing the basic understanding of what TDM is, but on how to design and evaluate programs. ITE, 1993. 400+ pp. *Publ. No. LP-297* \$35 (\$30).

## Manual of Traffic Signal Design, 2nd ed.

Covers traffic signal fundamentals, Offers wiring and cabling specifics; guides readers through preparing contractual documents; and explains construction supervision. This new edition reflects changes in the warrants in the Manual on Uniform Traffic Control Devices, the NEMA standards, and the FHWA Federal Procedures Manual. By James H. Kell and Iris J. Fullerton. ITE/Prentice-Hall, 1991. 256 pp. *Publ. No. TB-005A* \$69.

## Manual of Transportation Engineering Studies, 1st ed.

Shows in detail 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

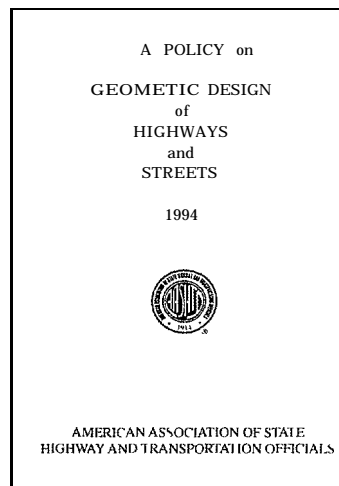
both oral and written presentation of study results. Includes useful forms for various transportation studies. Edited by H. Douglas Robertson. ITE, 1994. 624 pp. *Publ. No. TB-012* \$65.

## Parking Generation

A comprehensive source of parking occupancy rates for land uses and building types, this report is intended to be used by transportation professionals, developers, planning boards, and others involved in determining parking demand. 2nd ed. By ITE Technical Committee 5-BB, chaired by S. J. Johnson. ITE, 1987. 185 pp., spiralbound. *Publ. No. IR-034A* \$85 (\$60).

## The Parking Handbook for Small Communities

A step-by-step manual for planning parking, written for the nonparking professional, but helpful to the engineer as well. For small communities that might not have the personnel experienced in parking operations, design and administration. By John D. Edwards Jr. ITE/National Trust for Historic Preservation, 1994. 107 pp. *Publ. No. TB-013* \$45.



## A Policy on Geometric Design of Highways and Streets 1994 (metric)

Known as the "Green Book," this new metric edition discusses the geometric features of rural and urban highway design. Contains design practices in universal use as the standard for highway geometric design. This edition supersedes the 1990 "Green Book" and its addendum

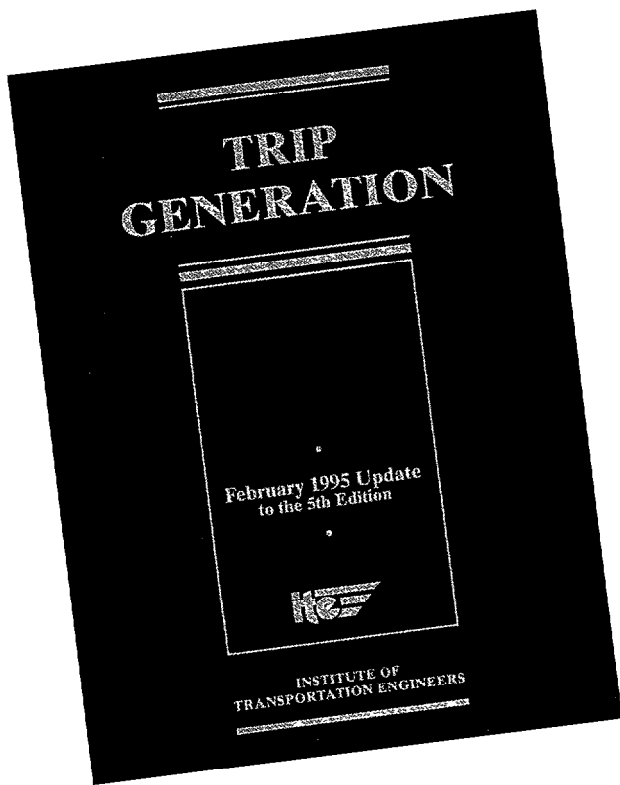
Interim Selected Metric Values for Geometric Design. AASHTO, 1994, 1,088 pp. *Publ. No. LP-323A* \$62.50

## Residential Street Design and Traffic Control

Examines basic issues and goals involved in planning, designing, and operating circulation systems in residential neighborhoods to provide a more compatible relationship between home and traffic. Sets forth some procedures for evaluating neighborhood traffic management proposals and suggests strategies for implementation. Stresses the relevance of residential street problems to the basic goals of traffic control. By E. Deakin, P.C. Bosselmann, D.T. Smith, Jr., W.S. Homburger, and B. Beukers. ITE/Prentice-Hall, 1989. 192 pp., casebound. *Publ. No. TB-008* \$68.

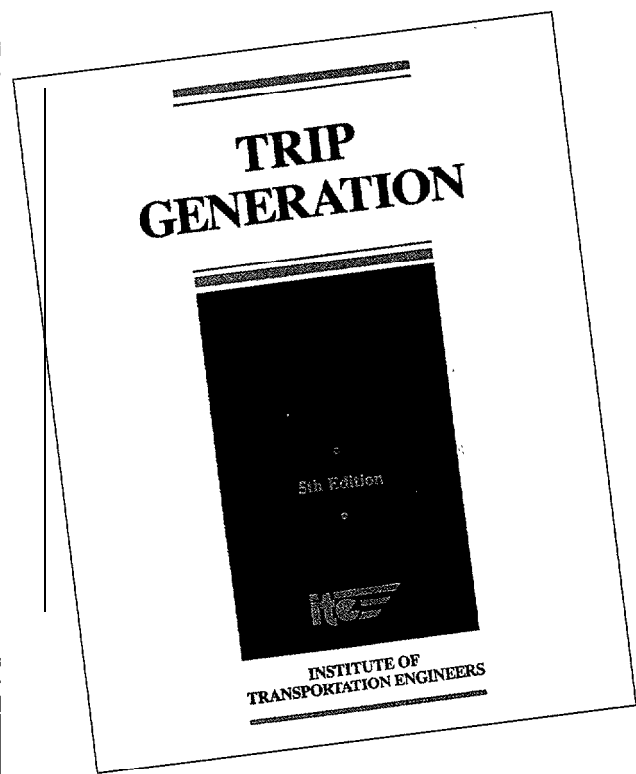
## A Toolbox for Alleviating Traffic Congestion

Intended for elected officials, business and community leaders, representatives of the media, and others interested in learning more about what options are available for reducing traffic congestion, this report examines the causes behind the growing traffic congestion problem and describes specific actions that can be taken to improve the situation. ITE, 1989. 154 pp. *Publ. No. IR-054A* \$35 (\$25).



## Trip Generation, February, 1995, 5th Edition Update

This update includes revised information on the following land uses: Day care center (565); free-standing discount superstore (813) (new land use); free-standing discount store (815); quality restaurant (831); high-turnover (sit-down) restaurant (832); fast food restaurant without drive-through window (833); fast food restaurant with drive-through window (834); gasoline/service station (844); gasoline/service station with convenience market (845); gasoline/service station with conve-



nience market and car wash (846); convenience market with gasoline pumps (853); discount club (861). ITE, 1995.256 pp. *Publ. No. IR-080. \$50 (\$35).*

## Trip Generation, 5th ed.

The fifth edition of this best-selling reference contains data from nearly 3,000 studies and provides updated information on multi-use projects and pass-by trips. Includes data for many new land uses, including convenience stores with gasoline pumps, service stations with convenience stores, discount supermarkets, auto care centers, and single-tenant office buildings. By ITE Technical Committee 6A-32, chaired by Carl H. Buttke. ITE, 1991. 1,600 pp. *Publ. No. IR-016C. \$150 (\$130).*

## NEW from the ITE Bookstore!

### PIARC CD-Route

The main and most recent World Road Association (PIARC) reports published from 1991 to 1995, in English and French, totaling 540 complete reports or bibliographic references. Areas covered: road terminology; road policies; economics and finance; safety, environment; traffic; urban areas; interurban areas; materials and tests; earthworks and pavements; road bridges and tunnels; road maintenance, operation and management; and technology transfer. This includes information on PIARC; OECD publications catalog; a thesaurus in French, English and German; dictionary of road terms in English, French and Spanish; English-French lexicon; and bibliographic references of other PIARC

publications. PIARC, 1996. Approx. 8,000 pages on one CD. *Publ. No. LP-380 \$200.*

### Traffic Calming in Practice

Eighty-five illustrated case studies in urban, residential and rural locations provide an overview of the state-of-the-art of traffic calming in the United Kingdom. The case studies are supported by introductory chapters covering regulations and legislation, good practice in handling the sensitive and complex matter of consultation so vital to the success of local traffic schemes, and an evaluation of the case studies. Landor Publishing, 1994.200 pp. *Publ. No. LP-384 \$45.*



# he Institute of

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# A

## lphabetical listing

### 1985 Highway Capacity Manual, The: An Executive Overview

Outlines differences between the 1985 edition of the Highway Capacity Manual and its 1965 predecessor. Contains information on concepts behind the rationale for changes in the methods of calculating capacity. Explains new computational procedures and methodologies and describes computer software programs available for duplicating methodologies. By Roger P. Roess and William R. McShane. ITE, 1986.32 pp. *Publ. No. LP-1 II; \$20 (\$15).*

### 1987 Compendium of Technical Papers

Papers from the 57th ITE Annual Meeting, Aug. 16-20, 1987, in New York, N.Y. Topics include: Transportation in the New York Metropolitan Area; computers; traffic signal operations and systems; transportation demand; 1985 Highway Capacity Manual; site development; the public and the media: hints for success; central business districts; traffic operations in urban areas; public transportation; traffic operations and safety; innovations in technology; traffic congestion; financing initiatives; construction work zones; downtown traffic circulation; and traffic surveillance and control. ITE, 1987. 350 pp. *Publ. No. PP-012; \$5.*

### 1990 Census and Transportation Planning

Discusses the contents of the 1990 U.S. Census that are applicable for transportation planning purposes. Census data provides important information on work location of each employed person, travel mode used for the journey to work, carpooling and vanpooling details, travel time, and number of vehicles per household. By Technical Council Committee 6Y-48, chaired by Lawrence V. Hammel. An Informational Report. ITE, 1992.22 pp. *Publ. No. 1X-060; \$20 (\$15).*

*To search by subject, rather than alphabetically, refer to the Index by Subject that begins on page 33.*

### 1990 Clean Air Act and the Transportation Engineering Profession, The

Provides overview and legislative history of Clean Air Act amendments and information on conformity requirements. Discusses how to integrate air quality planning with the metropolitan transportation planning process, and describes how the California Clean Air Act of 1988 impacted transportation decisionmaking. Includes information on travel reduction strategies in the Los Angeles area, and more. Prepared for an ITE Educational Foundation seminar. ITE, 1991.412 pp., spiralbound. *Publ. No. PD-028; \$75 (\$50).*

### 1991 Compendium of Technical Papers

Papers from the 61st ITE Annual Meeting, Sept. 22-25, 1991, in Milwaukee, Wisc. Topics include: older drivers; urban interchanges; urban design; growth management strategies; traffic operations; advanced vehicle and highway technologies; trip generation/land use; MUTCD; light rail; IVHS; signal timing software; road pricing and demand management; traffic management; teaming; traffic impact analysis and finance; congestion management; toll roads; traffic signal improvements; transportation engineering education; roadway safety; freeway operations; risk management; trip forecasting models; geographic information systems; emerging technologies; parking management; air quality; urban traffic engineering; demand management; access management. ITE, 1991.632 pp. *Publ. No. PP-023; \$55 (\$45).*

### 1992 Compendium of Technical Papers

Papers from the 62nd ITE Annual Meeting, Aug. 9-12, 1992, in Washington, D.C. Topics include: transportation planning; roadway design; motorist information systems; traffic signal warrants; bus feeder and commuter parking for rail and bus services; traffic congestion management; bicycle travel; urban traffic engineering agencies; transportation skills; traffic signals; land use and transportation relationships; energy and environmental issues; highway safety; case procedures; advanced transportation technologies systems; HOV facilities; freeway and incident management; traffic control devices; geometrics and safety; European per-

spective to safety practices; travel demand management; level of service and highway capacity assessments; planning and operations for special events; hi-tech purchasing; employee benefit programs; trip forecasting and assignments model; urban traffic engineering; funding improvements; GIS; traffic engineering for neo-traditional neighborhoods; work-zone traffic control and management; IVHS; TDM; traffic simulation modeling. ITE, 1992. 518 pp. *Publ. No. PP-026; \$55 (\$45).*

### 1992 Japan IVHS Study Tour Report

Reports include an overview of the tour; maintenance; field equipment; traffic management centers, signs and advisory radio; and policy and institutional issues concerning IVHS in Japan. ITE, 1993.167 pp. *Publ. No. PP-036; \$65 (\$50).*

### 1993 Compendium of Technical Papers

Papers from the 63rd Annual Meeting of the Institute of Transportation Engineers, held in The Hague, The Netherlands, Sept. 19-22, 1993. Topics include: Humps, Bumps and Slowing Traffic; Real World Simulation Experience; Advanced Highway Technologies; Recent Developments in Light Rail; Pedestrian and Bicycle Experiences; Advanced Highway Technologies; Traffic Calming; European Light Rail Systems; Weather Detection and Incident Management Systems; Reducing Congestion Through Transport Planning; Improving Traffic Operations Through Traffic Control; Air Quality Challenges; Traffic Forecasting and Modeling; Profession, Education and Technology Transfer; Transport Programs; US-Dutch Experience with Transportation Demand Management; Geographical Information Systems; Traffic Safety; Integrated Urban Transport Policies: The Intermodal Approach; Transport Safety; Congestion Management Alternatives; Financing Transport Projects; The Expert Witness; Residential Neighborhood Traffic Management; Traffic Operations; New Transport Technologies. ITE, 1993.519 pp. *Publ. No. PP-037; \$60 (\$50).*





### 1994 Compendium of Technical Papers

Papers from the 64th Annual Meeting of the Institute of Transportation Engineers, held in Dallas, Texas, Oct. 16-19, 1994. ITE, 1994, 620 pp. *Publ. No. PP-042; \$60 (\$50).*

### **NEW** 1995 Compendium of Technical Papers

Papers from the 65th Annual Meeting of the Institute of Transportation Engineers, held in Denver, Colorado, August 5-8, 1995. Papers are arranged by these tracks: Operations and Design; Planning; Transit/TDM; Human Factors; and the Transportation Profession. Papers for the District 6 Annual Meeting also are included. ITE, 1995, 912 pp. *Publ. No. PP-048; \$75 (\$65).*

### **NEW** 1995 Membership Directory

Contains alphabetical and geographical listings of ITE members. Includes the Institute's Constitution and policies. Lists ITE officers, committees, councils, sections, chapters, divisions and districts. Also includes a professional services directory and product advertisements. Published annually. ITE, 1995, 384 pages. *Publ. No.: PP-001D; \$100 (\$35).*

### **NEW** 1995 Salaries and Benefits of Transportation Engineers in North America

Presents the latest information on annual salaries and other cash compensation earned by members of the Institute of Transportation Engineers. Includes information on employers' policies on employee benefits, work hours, annual and sick leave, holiday schedules, travel and meeting expenses, and professional development. Data are analyzed by geographic location, employer type, employee age, years of work experience, education background, job responsibility level, professional registration, and ITE membership grade. This survey was made possible by a partial contribution from the ITE Transportation Consultants Council. ITE, 1995. *Publ. No. PP-050; \$35 (\$25).*

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### **AASHTO Guidelines for Traffic Data Programs**

The objective of this guide is to improve the quality of the traffic information that supports decisions at all levels of the transportation profession. The guide provides a reference for professional traffic monitoring and establishes a process for adoption of national traffic monitoring standards. AASHTO, 1992, 124 pp. *Publ. No. LP-329; \$25.50.*

### **Access Management Guidelines for Activity Centers**

Defines the overall concept of access management, reviews current practice, and sets forth basic policy, planning, and design guidelines. NCHRP Report 348. TRB, 1992, 111 pp. *Publ. No. LP-283; \$12.*

### **Accessible Transportation and Mobility**

Discusses the implications of the ADA; accessible transportation; strategic management in specialized transportation; computer reservation and scheduling in the paratransit industry; wheelchair lifts; and the securement of wheelchairs. Transportation Research Record 1378. TRB, 1993, 73 pp. *Publ. No. LP-282; \$23.*

### **Accident Data Quality: A Synthesis of Highway Practice**

Examines the accident record system, including data sources and users, considers the effect of inadequate data on analyses, and reviews data acquisition and processing techniques that have provided good results for the states using them. NCHRP Synthesis 192. TRB, 1993, 48 pp. *Publ. No. LP-339; \$11.*

### **Achieving Goals: Making Your Mark as a Board Member**

Advice on how to achieve your goals and make your mark as a member of your organization's board of directors. American Society of Association Executives, 1980, 4 pp. *Publ. No. OP-003 \$3.*

### **Adaptation of Geographic Information Systems for Transportation**

Provides an overview of adaptation of the concept of GIS for transportation. The report discusses the research approach and steps to implement the use of GIS in trans-

portation agencies. NCHRP Report 359. TRB, 1993, 69 pp. *Publ. No. LP-356; \$24.*

### **Aesthetics of Parking, The**

Offers examples of local design standards on improving the appearance of parking facilities, including requirements for landscaping and design. Describes how the design of parking facilities can relate or accentuate surrounding buildings and activities, not be disruptive or degrading to the quality of commercial areas. This report, by the American Planning Association (APA) is based on a survey of 300 local codes. By Thomas P. Smith. APA, 1988, 42 pp. *Publ. No. LP-141; \$28.*

### **Aging and the Visibility of Highway Signs: A New Look Through Old Eyes**

This report summarizes a AAA Foundation research program, the purpose of which was to understand and potentially ameliorate the effects of visual aging on the visibility of symbolic highway signs. AAA, 1991, 53 pp. *Publ. No. LP-295; \$15.*

### **Air Quality, Environment, and Energy**

Several environmental issues are considered, including energy, environment analysis, air quality, historic preservation, and noise abatement. Transportation Research Record 1366. TRB, 1992, 112 pp. *Publ. No. LP-268; \$22.*

### **Airport Capacity and Operations 1991**

Describe methods of analyzing airport capacity and operations. Topics include: analysis of national delays and throughput impacts of a new Denver airport; interactive airport landside simulation-an object-oriented approach; evaluating performance and service measures for the airport landside; and assessing tiltrotor technology-a total logistics cost approach. Transportation Research Record 1296. TRB, 1991, 44 pp. *Publ. No. LP-213; \$11.*

### **Airport Landside Planning and Operations**

The papers in this record examine various aspects of airport landside operations: airport access, vehicular flow at the terminal building curbside, management of ground transportation, extension of public transportation to airports, and automated people mover systems. Transportation Research Record 1373. TRB, 1992, 45 pp. *Publ. No. LP-263; \$17.*



### **Airport Roadway Guide Signs**

Presents proposed guidelines for the traffic engineer and the airport planner. Addresses proper signing in airport design and consequences of airport layout on sign programs. Includes sign messages, design and graphics, and sign location for single- and multiple-terminal airports. An ITE Recommended Practice, by Technical Council Committee 5D-1, chaired by Jim C. Lee. ITE, 1991.52 pp. *Publ. No. RP-014A*; **\$30 (\$20)**.

### **Airport Terminal and Landside Design and Operation 1990**

Deals with various aspects of the design and operation of airport terminals and landside facilities. Also included is a paper on the planning implications of regional airport closures. The papers were presented at the 69th Annual Meeting of the Transportation Research Board, January 1990, in Washington, D.C. Transportation Research Record 1273. TRB, 1990.54 pp. *Publ. No. LP-204*; **\$12**.

### **Alcohol and Other Drugs: Their Role in Transportation**

Examines drug and alcohol programs that have had a role in achieving the improvement and looks at measures that appear to be promising for future significant reductions. Transportation Research Circular 413. TRB, 1993.30 pp. *Publ. No. LP-289*; **\$11**.

### **Audible Pedestrian Traffic Signals for the Blind**

Includes information on positions taken by organizations for the blind and a world overview of what is being done to provide audible pedestrian indications for the blind. An ITE Issue Paper. ITE, 58 pp., photocopy. *Publ. No. 1P-003*; **\$5**.

### **Automobile Travel Reduction Options in Urban Areas**

Identifies and examines various options to reduce automobile travel in urban areas. Includes qualitative assessments of travel reduction effectiveness and potential of travel reduction options. By Technical Council Committee 6A-26, chaired by Paul M. Schonfeld. An ITE Informational Report. ITE, 1985.27 pp. *Publ. No. 1X-041*; **\$20 (\$15)**.

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## **B**

### **Basic References for the Transportation Engineer**

Provides information on major current references in 16 subject areas dealing primarily with surface transportation. Listing includes textbooks, manuals, reports, periodicals and other documents that contain significant information of importance to the practicing transportation professional. Also includes information on how to obtain copies of those publications. ITE, 1991.9 pp. *Publ. No. PP-029*; **\$5 (\$3)**.

### **Behavioural Adaptations to Changes in the Road Transport System**

Behavioral adaptations of road users are of particular concern to road safety authorities and program developers. This report reviews the state of the art in this field and the research conclusions of OECD countries likely to contribute to the efficiency of road safety policy actions and long-term initiatives. OECD, 1990. pp. *Publ. No. LP-183*; **\$26**.

### **Bicycle Accident Reconstruction: A Guide for the Attorney and Forensic Engineer**

The purpose of this book is to provide the accident reconstructionist and attorney with methods of determining the causes of bicycle accidents. Lawyers and Judges Publishing Co., 1992.197 pp. *Publ. No. LP-286*; **\$45**.

### **Bus Maintenance Facility Planning**

Addresses complexities of planning new bus garages. Discusses and describes many of the steps involved, including system inventories, needs assessment, functional planning, cost generation, facility location and sizing, and comparison of alternative site and capacity plans. By Technical Council Committee 6A-30, chaired by Thomas H. Maze. An ITE Informational Report. ITE, 1986. 12 pp. *Publ. No. 1X-042*; **\$15 (\$10)**.

## **C**

### **Capacities of Multiple Left-Turn Lanes**

This report presents the results of a study of the capacities of multiple left-turn lanes and the roadway geometric features that influence the capacity of such facilities.

Current practices of the treatment of multiple left-turn lanes are reviewed. By Technical Council Committee 5P-5, chaired by Robert W. Stokes. An Informational Report. ITE, 1993.31 pp. *Publ. No. 1X-065*; **\$30 (\$25)**.

### **Capacities of Triple Left-Turn Lanes**

This Information Report discusses the capacities of triple left-turn lanes and correlates the findings with roadway geometric features. Prepared by ITE Technical Council Committee 5P-5, Robert Stokes, chair. ITE, 1995. *Publ. No. IR-077*; **\$20 (\$15)**.

### **Capacity Analysis Techniques for Signalized Intersections (Nomographs)**

Contains nomographs for analysis and design of signalized intersections and thoroughly explains how to use them. The nomograph method for computing capacity simplifies and reduces hand work. Nomographs also provide a meaningful insight into the interaction between the various factors in the solution process for design analysis. Comes packaged with loose, oversized charts for easy use. By Jack E. Leisch. ITE, 1986.48 pp. plus charts. *Publ. No. LP-215*; **\$40 (\$30)**.

### **Career in Transportation Engineering Poster, A**

This color poster is an eye-catching call for students to enter the transportation engineering profession. Measures 24 x 36 inches. ITE, 1992. Poster *Publ. No. PP-030*; **\$5**.

### **Careers in Transportation Engineering**

Describes the opportunities and challenges of a career in transportation engineering. ITE, 1993. *Publ. No. MI-002*; **Free**.

### **Careers in Transportation Engineering Videotape**

Transportation engineering is both a science and an art: it demands a special kind of young professional. This videotape features young transportation engineers discussing the challenges, responsibilities and excitement of the profession. ITE, 1989.17~30 minutes, VHS format. *Publ. No. VHS-007*; **\$10**.





### **Cargo Routes: Truck Roads and Networks**

Examines the design characteristics needed for a roadway to accommodate trucks; to review traffic management measures and infrastructure needs of trucks; to consider possibilities for designated or dedicated infrastructure provisions in terms of truck lanes, routes or networks; and to assess the traffic, safety and environmental impacts of road freight vehicles. OECD, 1992,133 pp. *Publ. No. LP-243; \$46.*

### **Catalogue 1994-1996 of Training Courses for Developing Countries**

Contains a catalogue of training courses scheduled to take place in 1994,1995, and 1996 in transport management and road engineering for developing countries and those with economies in transition. PIARC, 1994,207 pp. *Publ. No. LP-318; \$27.*

### **Challenge and Opportunities for Tomorrow**

Reports on the 20th anniversary seminar of OECD's Road Transport Research program, which focused on how research, new technologies and international cooperation can enhance social and economic interchange in tomorrow's road transport and communication systems, especially how to improve and develop the road and motorway networks. OECD, 1989,179 pp. *Publ. No. LP-180; \$21.*

### **Cities and Automobile Dependence: An International Sourcebook**

An in-depth analysis on auto dependence in 32 cities in North America, Europe, Asia and Australia. The data used in the study are provided in both raw and standardized form. For urban planners, traffic engineers, and all those concerned with the quality of life in urban environments. By Peter W. Newman and Jeffrey R. Kenworthy. Ashgate Publishing Co., 1989,388 pp., casebound. *Publ. No. LP-164; \$79.95.*

### **Cities in the Balance: Creating the Transit-Friendly Environment**

This video depicts the relationship between transit and land use, and illustrates ways to make transit an attractive alternative to the automobile. The video identifies how neighborhoods can be developed to encourage the use of public transit. San Diego Metropolitan Transit Development Board, 1994,23:45 minutes. *Publ. No. VHS-015; \$25.*

### **Civil Engineering Careers: A User's Guide for Awareness, Retention, and Curriculum Programs Part II**

Contains strategies for implementing various programs to provide students with an awareness of civil and transportation engineering careers and to retain students with such interests. NCHRP Report 347 Part II. TRB, 1994,107 pp. *Publ. No. LP-354; \$25.*

### **Civil Engineering Careers: Awareness, Retention, and Curriculum**

This report describes techniques to promote students awareness of civil engineering as a career option. Also described are methods to enhance awareness for mathematics and science studies in general, as well as programs designed to address employee shortages in other professions. By J.M. Mason Jr., J.P. Tarris, and E. Zaki. TRB, 1992,118 pp. *Publ. No. LP-247; \$12.*

### **Clearing the Way**

This videotape describes incident management and the work of the National Incident Management Coalition. Produced by the Trucking Research Institute of the American Trucking Association Foundation. American Trucking Association, 9 minutes. VHS format. *Publ. No. VHS-011; \$20.*

### **Coast to Coast**

The second in a three-part, videotape documentary series "Coming and Going," of which ITE was a contributor. This segment describes transportation through the views of average citizens. Also sold as a set with the other two installments, "Over the Long Haul" and "Road to the Future." The series, which aired on PBS, is an excellent overview for the nonengineer on how transportation is vital to daily life. WETA, 1994. 60 minutes. *Publ. No. VHS-017; \$75.*

### **Coming and Going (Set)**

This three-part, videotape documentary series, of which ITE was a contributor, is an excellent overview for the nonengineer on how transportation is vital to daily life. Aired on PBS, the series includes "Over the Long Haul," about freight transportation; "Coast to Coast," different views of transportation in America; and "Road to the Future," which examines the role of the automobile in the future. Each segment also is sold separately. WETA, 1994,60 minutes each. *Publ. No. VHS-019; \$190.*

### **Communicating With Vehicles: IVHS Research and Operational Test Requirements**

This publication contains the proceedings of an IVHS workshop sponsored by the Communications Committee of the Transportation Research Board on Communicating with Vehicles. The workshop was held in Rosemont, Illinois on July 23-24,1992. Transportation Research Circular 411. TRB, 1993,35 pp. *Publ. No. LP-292; \$11.*

### **Communications, Traffic Signals, and Traffic Control Devices 1991**

Discusses some of the problems and issues facing urban traffic engineers as they try to optimize transportation systems to address increasing traffic congestion. Provides information and guidance on subjects ranging from determining the communication needs for the development and implementation of IVHS systems to operating traffic signal systems safely and efficiently. Transportation Research Record 1324. TRB, 1991,145 pp. *Publ. No. LP-232; \$26.*

### **Commuting in America**

This in-depth look at commuting patterns and trends in the United States is based on journey-to-work data gathered during the 1980 U.S. Census. Intended to support activities of those in the public and private sector whose responsibilities are impacted by the changing demands of commuting. By Alan E. Pisarski. Eno Foundation for Transportation, 1987,78 pp. *Publ. No. LP-128; \$10.*

### **Commuting in America: Executive Summary**

An executive summary of the full report on commuting patterns and trends in the United States. By Alan E. Pisarski. Eno Foundation for Transportation, 1987,10 pp. *Publ. No. LP-131; \$2.*

### **Compendium of Articles on Intelligent Vehicle Highway Systems, A**

This compendium contains selected articles on Intelligent Vehicle Highway Systems. The articles were published in either the ITE Journal, or the Compendium of Technical Papers from the ITE Annual Meetings or Mid-Year Conferences, all of which are publications of the Institute. The articles were originally published between 1990 and 1993. A reference list of additional ITE articles on IVHS is also included. ITE, 1993,217 pp. *Publ. No. PI-041; \$30 (\$20).*

### Compendium of Articles on Residential Street Traffic Control

Contains selected articles on Residential Street Traffic Control. The articles were published in either the ITE Journal, or the Compendium of Technical Papers from the ITE International and District Annual Meetings or Mid-Year Conferences, all of which are publications of the Institute of Transportation Engineers. The articles were originally published between 1984 and 1993. A reference list of additional ITE articles on Residential Street Traffic Control is also included. ITE, 1994.141 pp. *Publ. No. PP-044; \$30 (\$20).*

### Compendium of Articles on Transportation Demand Management, A

Selected articles on Transportation Demand Management. The articles were published in either the ITE Journal, or the Compendium of Technical Papers from the ITE Annual Meetings or Mid-Year Conferences, all of which are publications of the Institute engineers. Articles date from 1989. ITE, 1993. 188 pp. *Publ. No. PP-040; \$30 (\$20).*

### Compendium of Articles on Trip Generation, A

Contains articles on trip generation published in either ITE Journal or the 1989 Compendium of Technical Papers, both of which are publications of the Institute of Transportation Engineers. The original dates of publication of the articles range from 1980 to 1989. This compendium should be used only as an informational supplement to the current ITE report, Trip Generation (Publ. No. IR-016C). Because the rates and equations in Trip Generation are typically based on samples larger than those reported in this compendium, the information contained in Trip Generation should be used in preference to that given in the articles included in the compendium. ITE, 1990.92 pp. *Publ. No. PP-018; \$25 (\$15).*

### Compilation of Employee Commute Options Regulations for United States Nonattainment Areas

Contains all the Employee Commute Options (ECO) approved or proposed regulations, along with a discussion of the CAAA require-

*To search by subject, rather than alphabetically, refer to the Index by Subject that begins on page 33.*

ments, guidance, definitions, cost and benefits and more. This compilation should be of interest to jurisdictions and employers within nonattainment areas; and to consultants. ITE, 1993.588 pp. *Publ. No. PP-039; \$75 (\$50).*

### Computerized Bulletin Boards with a Transportation Emphasis

Provides a listing of computerized bulletin boards that offer information and data on transportation topics. For each bulletin board, the telephone number, log-on parameters and a brief description of services and topics are supplied. The report also includes an introduction to bulletin board use and a glossary of terms. By Technical Council Committee 4A-43, chaired by John F. Jones-Brown. An ITE Informational Report. ITE, 1992.26 pp. *Publ. No. H-059; \$15 (\$10).*

### NEW Congestion Control and Demand Management

Detailed catalogue of congestion management measures presenting strategy classes such as: land use zoning, telecommunications substitutes, traveler information services, economic measures, administrative measures, road traffic operations, preferential treatment, public transport operations, freight movements. Reviews existing policies, plans and programs for effective implementation and deals with the future of congestion management. OECD, 1995 139 pp. *Publ. No. LP-372; \$38.*

### Convention Liaison Manual

A meeting planner's guide to creating a successful convention, from organizing to conducting interesting activities at your convention. Includes checklists and even diagrams on how to build a display booth. Fifth edition. Convention Liaison Council, 1989.136 pp. *Publ. No. OP-005; \$24.*

### Cooperative Education for Transportation Engineering Students

Reports on a 1989 survey on the current status of cooperative education programs in transportation engineering in U.S. and overseas academic institutions, as well as in U.S. industries. By Technical Council Committee 2-37, chaired by Louis J. Pignataro. An Informational Report. ITE, 1992. 20 pp. *Publ. No. 1X-057; \$10 (\$5).*

### Correction of Hazards on Urban Streets

Assists in identification and correction of hazards on urban streets. Offers a compilation of information from a variety of sources to aid the practicing transportation engineer and local decision-maker in analyzing the transportation system and selecting potential improvements to it. By Technical Council Committee 5-7, chaired by Richard L. Peterson. An ITE Informational Report. ITE, 1986. 24 pp. *Publ. No. IR-043; \$20 (\$15).*

### Cost Efficiency in Bus Transit Systems

Evaluates techniques for improving conventional bus system productivity by identifying cost-effective improvements and operating strategies. Discusses service, operations, equipment, and administrative concerns. By Technical Council Committee 6Y-16, chaired by Edward G. Bates Jr. An ITE Informational Report. ITE, 1981.24 pp. *Publ. No. IX-022A; \$15 (\$10).*

### Curbing Gridlock: Peak Period Fees to Relieve Traffic Congestion, Vols. 1 and 2

Volume 1 contains overview of the papers found in Volume 2 on congestion pricing, including recommendations and evaluating earlier demonstrations of congestion management. TRB, 1994. Vol. 1, 143 pp.; Vol. 2,554 pp. *Publ. No. LP-365; \$50.*

## D

### Data for Decisions: Requirements for National Transportation Policy Making

An independent assessment of the data needed for national transportation decision-making and the institutional changes required within the U.S. Department of Transportation to ensure that a permanent data capability is restored. Includes appendices summarizing major national transportation data programs and new technologies for transportation data collection and analysis. Transportation Research Special Report 234. TRB, 1992.168 pp. *Publ. No. LP-219; \$21.*





### **Design and Safety of Pedestrian Facilities**

This Proposed Recommended Practice discusses guidelines for the design and safety of pedestrian facilities to provide safe and efficient opportunities for people to walk near streets and highways. Prepared by ITE Technical Council Committee 5A-5, Charles V. Zegeer, chair. ITE, 1995. 65 pp. *Publ. No. XI'-026; \$30 (\$25).*

### **Design Features of High-Occupancy Vehicle Lanes**

A summary of available design guidelines, characteristics and operating experience of existing HOV lanes, as well as those proposed, under construction and no longer in operation. Also presents a summary of desirable and minimum widths of design elements associated with HOV lanes. Signing and marking of HOV lanes and priority entry ramp design considerations also are studied. An ITE Informational Report, prepared by Technical Council Committee 5C-11, chaired by Timothy J. Lomax. ITE, 1992. 34 pp. *Publ. No. 1X-055; \$25 (\$20).*

### **Determining Vehicle Signal Change and Clearance Intervals**

Presents some of the various methods used to determine the lengths of yellow change intervals and red clearance intervals. An extensive reference and bibliography section is also provided. By ITE Technical Council Committee 4TF-1, chaired by Beverly A. Thompson. ITE, 1994, 13 pp. *Publ. No. 1X-073; \$15 (\$10).*

### **Development and Evaluation of Roadside Safety Features**

Evaluation of the performance of a 30-in New Jersey safety-shape bridge rail to determine if a standard 32-in. New Jersey safety-shape bridge rail would provide satisfactory safety performance after a 2-m overlay was placed on the adjacent bridge deck. The safety performance was found to be satisfactory. Transportation Research Record 1367. TRB, 1992. 100 pp. *Publ. No. LP-270; \$22.*

### **Dimensions of Parking, 3rd ed.**

Updated, expanded version of the Urban Land Institute's (ULI) 1965 study. New chapters cover design for small cars, revenue control, equipment and maintenance, construction costs and signage, as well as energy and the automobile, traffic access, security, ventilation, financing methods and additional details every developer should know. By the Parking Consultants Council, National Parking Association (NPA), 3rd ed. ULI/NPA, 1983. 152 pp. *Publ. No. LP-090; \$34.95.*

### **Driver Performance Data Book Update: Older Drivers and IVHS**

A compilation of summaries of driver performance data from two areas of research: older drivers and intelligent vehicle highway systems. The objective of the report is to provide summaries of research data relevant to the understanding driver performance capabilities and limitations that can influence crash prevention. Transportation Research Circular 419. TRB, 1994, 143 pp. *Publ. No. LP-347; \$23.*

### **Driver Performance: Measurement and Modeling, IVHS, Information Systems, and Simulation**

Focuses on driver performance and simulation. Specific topics covered include: human engineering of advanced technology, human behavior such as eye scanning, and driver work load. Transportation Research Record 1403. TRB, 1993, 106 pp. *Publ. No. LP-337; \$25.*



### **Economics, Finance, and Administration**

Divided into five topics: transportation finance, economic analysis, socioeconomic effects of transportation, transportation education and training, and the conduct of research. Transportation Research Record 1359. TRB, 1992. 196 pp. *Publ. No. LP-266; \$35.*

### **Effect of the Quality of Traffic Signal Progression on Delay**

Techniques for computing highway capacity, as contained in the 1985 Highway Capacity Manual's chapter on signalized intersections. The report documents the research methodology and provides well-illustrated examples of how to apply the results. NCHRP Report 339. TRB, 1991. 100 pp. *Publ. No. LP-216; \$11.*

### **Effective Communications for the Transportation Professional**

A manual on an organizational approach to communication dynamics. Includes case history examples of common communication problems in operations, design and planning with practical responses for transportation officials who have not had the benefit of practical, formal or role-model education. By Technical Council Committee 2-22, chaired by William van Gelder. An ITE Informational Report. ITE, 1984. 80 pp. *Publ. No. 1X-029; \$25 (\$20).*

### **Effective Meeting Skills: A Practical Guide for More Productive Meetings**

Designed to help you enhance the quality of meetings you attend—either as a leader or participant—this booklet advises you on planning, conducting and improving those meetings. Questionnaires, checklists, and exercises are included. By Marion E. Haynes. Crisp Publications Inc., 1988. 98 pp. *Publ. No. OP-002; \$8.95.*

### **Effective Public Relations**

Defines the role of public relations. Focuses on practical applications of principles and philosophy to specific areas. With numerous case studies, examples, and chapter-end case problems. By Scott M. Cutlip, Allen H. Center and Glen M. Broom. Prentice-Hall, 6th ed., 1985. 670 pp. *Publ. No. LP-046; \$67.*

### **Effective Utilization of Street Width on Urban Arterials**

Evaluations of various alternative strategies for reallocating the usage of street width without changing the total curb-to-curb width. A process is recommended for selecting appropriate improvement strategies based on their traffic operational and safety effects. NCHRP Report 330. TRB, 1990. 49 pp. *Publ. No. LP-294; \$9.*

### **Effectiveness of High-Occupancy Vehicle Facilities, The**

Presents and interprets survey data from agencies responsible for planning and operating HOV facilities, both in separate rights-of-way and within freeway rights-of-way. Data primarily relates to HOV lane design features, operations, enforcement, safety, maintenance, funding, support facilities and ridership. By Technical Council Committee 6A-37, chaired by Dennis L. Christiansen. An ITE Informational Report. ITE, 1988. 29 pp. *Publ. No. IR-050; \$25 (\$20).*



### Effectiveness of Median Storage and Acceleration Lanes for Left-Turning Vehicles

Summarizes current practices and experiences with, as well as safety and operation impacts of, median acceleration, deceleration and storage lanes. Considers left-turn deceleration/storage lanes, far-side median left-turn acceleration lanes, and continuous two-way left-turn median lanes. By Technical Council Committee 5B-4, chaired by Sam Yagar. An ITE Informational Report. ITE, 1984.23 pp. *Publ. No. 1X-028; \$15 (\$10).*

### Electronic Toll and Traffic Management (ETTM) Systems

This NCHRP Synthesis describes the electronic toll and traffic management systems technology, and include examples of several current ETTM systems. NCHRP Synthesis 194. TRB, 63 pp. *Publ. No. LP-341; \$15.*

### Elimination or Mitigation of Hazards Associated with Pavement Edge Dropoffs During Roadway Resurfacing, The

Identifies the scope of work in resurfacing contracts which can lead to pavement edge dropoffs, and identifies the magnitude of contract work creating such dropoffs. The report concludes with recommended changes in contract scope or performance to eliminate or mitigate such occurrences. AAA, 1994,20 pp. *Publ. No. LP-348; \$5.*

### Employment and Parking in Suburban Business Parks: A Pilot Study

Reports on a study designed to test whether it is possible or cost-effective to collect reliable information on employment density and parking demands, and particularly to determine whether information on structures can be used to estimate employment density. ULI, 1986.32 pp. *Publ. No. LP-218; \$33.95.*

### Employment Center Parking Facilities

Focuses on parking management and links it to vehicle design and environmental and social factors. Topics include ridesharing, traffic generation, parking demand and parking design. By Technical Council Committee 6F-24, chaired by Willard A. Alroth. An ITE Information Report. ITE, 1988.18 pp. *Publ. No. IR-052; \$20 (\$15).*

### Energy and Environment 1990: Transportation-Induced Noise and Air Pollution

Includes 15 papers. Topics addressed include airplane noise and mitigation of its impact on the community; the rating system for sound insulation; public transportation issues; research on traffic-induced noise; and high-speed rail systems. Transportation Research Record 1255. TRB, 1990.138 pp. *Publ. No. LP-192; \$23.*

### Energy and Environmental Issues 1991

Topics include environmental analysis; interrelationships between transportation and air quality; public attitudes toward transportation noise; the physicochemical phenomena of soils; and the altimetric sensing of ocean currents. Transportation Research Record 1312. TRB, 1992.183 pp. *Publ. No. LP-225; \$28.*

### Energy Impacts of Urban Transportation Improvements

Addresses the vital role urban transportation engineers must play in achieving more efficient and wiser energy use. Summarizes the nature of the energy problem and emphasizes increases both in use of more energy-efficient travel modes and habits and in the energy efficiency of traffic flow. Estimates the energy-savings potential of various urban transportation improvements. By Frederick A. Wagner. An ITE Informational Report. ITE, 1980. 59 pp. *Publ. No. IR-020; \$20 (\$15).*

### NEW Engineering Education: Designing an Adoptive System

A report on the changing dynamics of and the challenges facing engineering education. The report outlines education today; how to achieve change; and what actions need to be taken to actualize these changes. National Academy Press, 1995. 79 pp. *Publ. No. LP-377; \$27.*

### ENO-The Man and The Foundation: A Chronicle of Transportation

Discusses the life of William Phelps Eno and the organization he created, the Eno Foundation, to deal with the centuries-old problem of traffic chaos. ENO, 1988,199 pp. *Publ. No. LP-349; \$15.*

### Environment-Changing Our Transportation Priorities: Resource Papers of the 1994 ITE International Conference, The

Contains resource papers presented at the "The Environment-Changing Our Transportation Priorities" conference conducted by ITE. These papers contain information on those issues transportation professionals are facing in trying to meet the sometimes conflicting challenges of improving the environment and mobility using the variety of transportation demand and supply measures that are available. ITE, 1994.277 pp. *Publ. No. PP-045; \$35 (\$25).*

### Environmental Impact Assessment of Roads

A review of traditional environmental impact assessment methods and procedures currently used. Explores the potential offered by new research developments, such as strategic approaches for longterm policies, plans and programs. Reviews strategic developments for enhancing planning and the decision-making process for planners and policy officials. OECD, 1994.186 pp. *Publ. No. LP-364; \$40.*

### Equipment and Material Standards of the Institute of Transportation Engineers

Includes the full text of the following standards: Pretimed Traffic Signal Controllers; Traffic-Actuated Traffic Signal ControllersNSolid State; Solid-State Pretimed Traffic Signal Controller Units; Controller Cabinets; Traffic Signal Lamps; Vehicle Traffic Control Signal Heads; Lane-Use Traffic Control Signal Heads; Pedestrian Traffic Control Signal Indications; Purchase Specification for Flashing and Steady Burn Warning Lights; A Standard for Vehicle Detectors; A Model Performance Specification for the Purchase of Pavement Marking Paints and Powders; A Model Performance Specification for the Purchase of Thermoplastic and Preformed Plastic Pavement Marking Material. ITE. 102 pp. *Publ. No. ST-017; \$35 (\$25).*

*To place an order, complete and return the order form on back cover to: institute of Transportation Engineers, 525 School Street, S. W., Suite 414 Washington, DC20024-2797 USA. Orders can also be placed by Fax (202/863-5486) or telephone (202/1554.8050).*



## NEW ETTM Primer for Transportation and Toll Officials, An

As the application of ETTM becomes more widespread, it is critical that the transportation professional have access to a basic knowledge of how it works and how it might be applied to your jurisdiction. This primer was written for transportation professional with a department of transportation or toll authority. Those involved with transportation through legislative bodies or members of the press may find this helpful, as well. ITS America, 1995.73 pp. *Publ. No. LP-376; \$80.*

## Evaluation of Employee Trip Reduction Programs Based on California's Experience with Regulations XV

This report summarizes the results of an evaluation of employer-based trip reduction programs, based on California's experience to date with Regulation XV. The report discusses the background and impacts of Regulation XV, including program costs and cost effectiveness. By Technical Council Committee 6Y-51, chaired by C. Kenneth Orski. An Informational Report. ITE, 1994, 14 pp. *Publ. No. 1X-067; \$10 (\$5).*

## Existing Practices for Interconnecting Traffic Signals

Discusses the existing practices for interconnecting traffic signals and provides research recommendations to determine guidelines for signal interconnect. By ITE Technical Council Committee 4A-31. An ITE Informational Report. ITE, 1994, 7 pp. *Publ. No. 1X-072; \$10 (\$5).*



## Federal Register Notices on ISTE Metropolitan Planning, Statewide Planning, and Management Systems

Proposed rules on metropolitan planning, statewide planning, and seven management systems mandated by 1991 ISTE. Published in March 2, 1993 Federal Register. Comments due by May 3, 1993. Availability announced in April ITE Journal Washington Report. Federal Register, 1993, 60 pp. *Publ. No. I-T-038; \$10.*

## Field Demonstrations of Advanced Data Acquisition Technology for Maintenance Management

Contains the results of field demonstrations and evaluations of several advanced technologies and procedures for maintenance-data acquisi-

tion and management. NCHRP Report 361. TRB, 1993. 115 pp. *Publ. No. LP-336; \$25.*

## Finance, Planning, Programming, Economic Analysis, and Land Development 1991

A cross section of current research and applications in transportation systems planning and administration. Transportation Research Record 1305. TRB, 1992. 384 pp. *Publ. No. LP-223; \$54.*

## Finance, Taxation, Pricing, Economic Analysis, Socioeconomics, Education, and Management

Papers on the following transportation issues: Finance, taxation and pricing, economic analysis and socioeconomic impacts; management and productivity; and education and training. Topical issues discussed include public-private partnerships, time utility, and economic analysis techniques. Transportation Research Record 1395. TRB, 1993, 199 pp. *Publ. No. LP-299; \$41.*

## Flexible Parking Requirements

Discusses local parking policies and shares samples of flexible parking requirements. Includes specific studies of parking demand. By Thomas P. Smith. APA, 1983. 38 pp. *Publ. No. LP-079; \$24.*

## Forecasting the Basic Inputs to Transportation Planning at the Zonal Level

Addresses use or preparation of socioeconomic input data critical for estimating travel demand at the subcounty geographical level. NCHRP Report 328. TRB, 1990. 55 pp. *Publ. No. LP-193; \$9.*

## Forensic Procedures in Transportation Engineering

An informational guide for the transportation engineer who is preparing to serve as an expert witness or to deliver an opinion in a transportation liability case. Four major categories that affect forensic procedures are considered: expert identity, ethical considerations, engineering investigation and analysis, and professional conduct in court. By Technical Council Committee 2-31. An ITE Informational Report. ITE, 1989. 10 pp. *Publ. No. 1X-053; \$20 (\$15).*

## Freeway Corridor Management

Provides information on freeway corridor management strategies, the components of management, examples of effective applications of the strategies, and benefits of freeway corridor management. The management techniques discussed cover incidents, special events and work zones. NCHRP Synthesis 177. TRB, 1992. 64 pp. *Publ. No. LP-238; \$9.*

## Freeway Entrance Ramp Displays

Provides a recommended practice for freeway entrance ramp signal displays, signs, pavement markings and channelization. Discusses detectors and control strategies. An ITE Recommended Practice, by Technical Council Committee 4Z-A, chaired by Donald E. Orne. ITE, 1976. 10 pp. *Publ. No. RP-007; \$5 (\$3).*

## Freeway Guide Sign Replacement: Policies and Criteria

Provides information on policies and procedures used by states in evaluating freeway guide signs and replacing those that are outdated or that have deteriorated. Describes the policies, procedures, and criteria used by states for freeway sign evaluation and replacement programs. NCHRP Synthesis of Highway Practice 155. TRB, 1991. 37 pp. *Publ. No. LP-208; \$8.*

## Freeway Operations and High-Occupancy Vehicle Systems

Discussed are specific areas of freeway operations such as incident detection algorithms, traffic responsive ramp metering strategies, and public-private partnerships for developing freeway traffic management projects. Also included are several papers on HOV systems. Transportation Research Record 1394. TRB, 1993, 72 pp. *Publ. No. LP-293; \$23.*

## Freeway Operations, Highway Capacity, and Traffic Flow 1991

A compilation of papers presented at the 1991 TRB Annual Meeting. Includes "Saturation Flow: Do We Speak the Same Language?" by Teply and Jones, which received the D. Grant Mickle award as the outstanding paper in the areas of operation, safety and maintenance at the annual meeting. Transportation Research Record 1320. TRB, 1991. 268 pp. *Publ. No. LP-235; \$45.*



### Fundamentals of Traffic Engineering, 13th ed.

Covers traffic engineering characteristics and studies, control devices, planning and design, control systems, environmental and energy aspects and administration. Reflects new literature and changes in laws and regulations, as well as recent changes in the state of the knowledge, art and practice of traffic engineering. By Wolfgang S. Homburger, James H. Kell and David D. Perkins. University of California, Institute of Transportation Studies, 1992.329 pp. *Publ. No. LP-003D*; \$20.



### Geography of Urban Transportation, The

Theoretical and practical concerns of urban transportation from a geographic perspective. Shows how social scientists and planners analyze the problems. Spotlights the transportation-related policy concerns of public transportation, land use impacts, energy issues, social and environmental impacts and substituting communications for travel. Provides an overview of policy options. Susan Hanson, editor. Guilford Press, 1986.424 pp., case-bound. *Publ. No. LP-142*; \$42.95.

### Geometric Design and Operational Considerations for Trucks

Assembles current information on large trucks that is useful to highway and traffic engineers in adequately accommodating trucks on roadways. Contains truck dimensions and performance characteristics. Provides details for use in the design of roadway elements. Also covers the impact of trucks on highway capacity and methods for handling trucks in work zones. By Technical Council Committee 5B-28, chaired by Kay Fitzpatrick. An Informational Report. ITE, 1992.94 pp. *Publ. No. 1X-062*; \$30 (\$25).

### Geometric Design Considerations 1991

Contains 12 papers dealing with geometric design. Topics include geometries and trucks, sight distance, passing lanes, intersections and design and safety. Transportation Research Record 1303. TRB, 1991.124 pp. *Publ. No. LP-217*; \$20.

### Getting Safely Past the Orange Barrels

This video promotes cooperation in protecting the lives of highway construction workers by showing drivers what construction signs, signals, and markings mean. The purpose of the film is to show drivers how to adjust their driving when passing through road construction areas. AAA, 1992.11 minutes.

*Publ. No. VHS-024*; \$40.

### NEW Green Light for Towns

This book investigates the reasons for urban explosion and its corollary, traffic congestion; analyzes and explains this worldwide phenomenon; and proposes work and study channels. UITP, 1991.32 pp.

*Publ. No. LP-378*; \$15.

### Guide for Enhancement of Highway Safety Directed to Agencies, Programs, and Standards

A series of guidelines to help administrators identify management techniques that will help assure that safety aspects of highway decisions are properly evaluated and considered, in the areas of agency, administration, program development and design standards. AASHTO, 1983.12 pp.

*Publ. No. LP-333*; \$3.

### NEW Guide for Erecting Mailboxes on Highways

A third edition of an informational guide prepared to provide the highest degree of safety practicable for the motoring public and protection to mail carriers and mailbox owners on public highways. AASHTO, 1985.36 pp.

*Publ. No. LP-322A*; \$16.

### Guide for the Design of High Occupancy Vehicle Facilities

This guide, which supersedes the 1983 Guide for the Design of High Occupancy Vehicle and Public Transfer Facilities, addresses high occupancy vehicle (HOV) options in terms of planning and operations, and design criteria for HOV options on freeway and surface arterial streets. AASHTO, 1992, 104 pp. *Publ. No. LP-325*; \$26.

### Guide for the Design of Park-and-Ride Facilities

This guide offers specific planning and design guidance for implementing park-and-ride facilities to encourage use of existing transportation systems. The guide also offers specifics related to the facilities of a ridesharing program.

AASHTO, 1992.96 pp. *Publ. No. LP-328*; \$23.50.

### Guide to Metric Conversion

This historic, comprehensive manual provides step-by-step guidance for each agency to form its own metric conversion plan. Subject areas also include the reasons for metricating highways, the metric conversion experiences of Canada and other nations, hard versus soft conversions, and the use of dual units. AASHTO, 1993.118 pp.

*Publ. No. LP-327*; \$16.

### Guidelines for Converting Stop to Yield Control at Intersections

For state and local traffic and safety engineers concerned with conversion of Stop control to Yield control at intersections. Guidelines for the conversion of Stop control to Yield control and suggested warrants for improved Stop and Yield control for potential inclusion in the Manual on Uniform Traffic Control Devices. NCHRP Report 320. TRB, 1989.49 pp. *Publ. No. LP-2 61*; \$9.

### Guidelines for Design of Light Rail Grade Crossings

Information on design with an emphasis on key findings about significant crossing problems and potential solutions. Includes a brief description of each light rail system (North American) and findings regarding problems, potential solutions, and the relationship of crossing type to traffic volumes and crossing control/light rail vehicle priority. By Technical Council Committee 6Y-37, chaired by Hans W. Korve. An Informational Report. ITE, 1992.92 pp.

*Publ. No. 1X-063*; \$30 (\$25).

### Guidelines for Determining Where the 55-MPH Speed Limit Could Be Raised

Recommends guidelines for governmental jurisdictions in selecting segments of interstate highway where the 55-mph limit could be raised without adversely affecting highway safety. An ITE Proposed Recommended Practice, by an ITE Task Force, chaired by James L. Pline. ITE, 1987.12 pp.

*Publ. No. RP-029*; \$10 (\$5).

### Guidelines for Driveway Location and Design

Guidelines for location and design of driveways that provide access from public streets and highways to developments on abutting property. Includes classifications and definitions, design considerations, traffic volumes, design elements

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and recommended guidelines. An ITE Recommended Practice, by Technical Council Committee 5B-13, chaired by Paul C. Box. ITE, 1987.23 pp.  
*Publ. No. XI-OOGB; \$30 (\$20).*

## NEW Guidelines for Establishing Freeway Service Patrols

In an effort to reduce traffic congestion and delay caused by incidents such as accidents and disabled vehicles, many metropolitan areas have implemented a variety of traffic management tools. One such tool is a freeway service patrol. There are numerous benefits to implementing such a program. This report, by Technical Committee 4M-36, discusses guidelines to establish such programs. Michael A. Ogden, Chair. ITE, 1996.16 pp.  
*Publ. No. IR-087; \$35 (\$25).*

## Guidelines for High-Occupancy Vehicle (HOV) Lanes

For transportation planners and engineers considering implementation of exclusive lanes for high-occupancy vehicles. Includes both general guidelines for HOV lanes and specific guidelines for exclusive lanes on controlled access facilities with shared travel ways, on city streets and for authorized vehicles only. An ITE Recommended Practice, by Technical Council Committee 6A-16, chaired by Eugene M. Wilson. ITE, 1986.7 pp.  
*Publ. No. RP-02 7; \$10 (\$5).*

## Guidelines for Parking Facility Location and Design

Essentially an update of the "Location and Design" chapter of Parking Principles, published in 1971 by the Highway Research Board of the National Research Council. A major addition has been made on guidelines for handicapped parking needs. A second addition relates to methods of separating large (full-size) and small-size cars. By ITE Technical Council Committee 5D-8, chaired by Paul C. Box. An ITE Recommended Practice. ITE, 1994.32 pp.  
*Publ. No. RP-022A; \$35 (\$25).*

## Guidelines for Planning and Designing Access Systems for Shopping Centers

Part I examines number and spacing of access points and provides design guidelines for access point spacing. Part II considers design treatments at shopping center entrances. By Technical Council Committee 5-DD, chaired by

Richard C. Gern. An ITE Informational Report. ITE, 1975/1988.10 pp.  
*Publ. No. IX-022; \$10 (\$5).*

## Guidelines for Prohibition of Turns on Red

Provides a set of uniform guidelines for use by agencies in determining those intersection approaches where right turn on red should be prohibited. Guidelines are qualitative and allow for application of engineering judgment. An ITE Recommended Practice, by Technical Council Committee 4A-17, chaired by William F. Savage. ITE, 1986.2 pp.  
*Publ. No. RP-018; \$10 (\$5).*

## Guidelines for Residential Subdivision Street Design, A Recommended Practice

Developed through a review of existing local criteria and national recommendations, current practice, and experience, these guidelines are intended for adoption as specific elements within local subdivision ordinances. The guidelines are directed at "conventional" residential subdivisions. By ITE Technical Council Committee 5A-25, chaired by Paul C. Box. A Recommended Practice. ITE, 1993.  
*Publ. No. RP-011C; \$35 (\$25).*

## Guidelines for Selecting and Carrying Out Tests on Marking Products 1991

Addresses several aspects of testing road marking products such as: use characteristics and service qualities, tests on roads (qualification test, performance tests), and laboratory tests (qualification tests, product identification tests, tests on glass beads). PIARC, 1991.48 pp.  
*Publ. No. LP-315; \$11.*

## Guidelines for the Design and Application of Speed Humps, A Proposed Recommended Practice

This ITE proposed recommended practice will assist in establishing locally adopted guidelines for the design and application of those geometric design features. An ITE Proposed Recommended Practice, by Technical Council Speed Humps Task Force, chaired by R. Marshall Elizer Jr. ITE, 1993.22 pp.  
*Publ. No. RP-023; \$25 (\$20).*

*To search by subject, rather than alphabetically, refer to the index by Subject that begins on page 33.*

## Guidelines for Urban Major Street Design

Presents guidelines for geometric design elements that affect functional operation, as opposed to structural features, of urban major streets. Intended to provide a foundation or starting point for rational engineering design decisions. An ITE Recommended Practice, by Technical Council Committee 5-5, chaired by Paul C. Box. ITE, 1984. 81 pp. *Publ. No. RP-010A; \$40 (\$25).*

## Guidelines on Citizen Participation in Transportation Planning

Focuses on the needs of agency administrators and professionals in the planning process and participation programs in state agencies, but is also relevant at regional and local levels for all transportation modes. Photocopy. AASHTO, 1978.97 pp.  
*Publ. No. LP-332; \$14.75.*

# H

## Highway Capacity and Traffic Flow

Papers focus on highway capacity, traffic flow measurement, or traffic flow theory. However, the papers cover a wide range of problems reflecting the concerns of both theoreticians and practitioners. Transportation Research Record 1365. TRB, 1992.154 pp.  
*Publ. No. LP-273; \$26.*

## Highway Capacity Manual

This latest update of the third edition includes updated chapters 1,2, 3,5,7,9,10 and 11. The revisions include changes in analysis procedures for signalized and unsignalized intersections, freeways, ramps and arterial streets. The manual also provides a collection of techniques for estimating the capacity and level of service of freeways, highways and streets, and chapters on transit, pedestrian and bicycle capacity. TRB, 1985.  
*Publ. No. LP-ZOZB; \$80.*

## Highway Safety: Older Drivers, Seat Belts, Alcohol, Motorcycles, and Pedestrians 1991

The report is divided into two parts: the first section contains papers about older drivers, and the second contains papers about diverse safety topics-seat belts, alcohol, motorcycles, and pedestrians. Transportation Research Record 1325. TRB, 1991.82 pp.  
*Publ. No. LP-236; \$21.*





### Highway Systems, Human Performance, and Safety 1991

Four general areas are discussed: speed and speed limits, roadway design and operations and accident analysis, intelligent vehicle-highway systems, and information systems and human performance. Transportation Research Record 1318. TRB, 1991.146 pp. *Publ. No. LP-230; \$26.*

### HOV Facilities: The High-Occupancy Alternative

This videotape describes the benefits of high-occupancy vehicle (HOV) facilities. It explains the advantages of efforts to improve mobility by moving more people, rather than just more cars. Successful HOV projects in Pittsburgh, Houston, and Seattle are described in detail. Will be useful to communities considering implementing HOV facilities. USDOT/UMTA, 1991.19:09 minutes. VHS format. *Publ. No. VHS-010; \$30 (\$25).*

### Human Factors Research in Highway Safety

This report summarizes the proceedings of a workshop on Human Factors in Highway Safety in Washington, DC, April 1-3, 1992. The objective of this workshop was to develop a set of prioritized research problem statements in the area of human factors in highway safety. Transportation Research Circular 414. TRB, 1993.54 pp. *Publ. No. LP-302; \$12.*



### Impact of Jersey Median Barriers on the Frequency and Severity of Freeway Accidents, The

This report describes research which was conducted to examine the safety impact of Jersey-type median barriers on the total number of accidents and the severity of accidents. AAA, 1991.80 pp. *Publ. No. LP-296; \$15.*

### Implementation Strategies for Sign Retroreflectivity Standards

Minimum performance standards for m-service retroreflective traffic signs are being considered. Before retroreflectivity standards can be implemented, their potential economic impact must be assessed. Describes research undertaken to determine the economic conse-

quences of alternative standards for retroreflective traffic signs. NCHRP Report 346. TRB, 1992.44 pp. *Publ. No. LP-229; \$9.*

### Implementing Effective Employer-Based Travel Demand Management Programs-A Guidance Manual

Design for employers, developers, property owners and managers, transportation management associations and TDM consultants. Guide for planning, implementing or evaluating employer-based TDM programs that are effective in reducing commute trips. ITE, 1994.128 pp. *Publ. No. LP-308; \$30 (\$20).*

### Implementing Effective Travel Demand Management Measures: A Series on TDM

Clarifies the role of and provide the most comprehensive, accurate and useable guidance on TDM. The user will find in this report a set of materials, statistics, guides and tools that should be of significant value in not only increasing the basic understanding of what TDM is, but on how to design and evaluate programs. ITE, 1993.400+ pp. *Publ. No. LP-297; \$35 (\$30).*

### Improving Road Safety by Attitude Modification

Contains current information on road user attitudes and behavior relationships. Examines methods for modifying road user attitudes. Discussed are guiding principles for the beneficial use of attitude-behavior relationships in practical road safety work, and a range of specific research needs are enumerated. OECD, 1994.96 pp. *Publ. No. LP-363; \$30.*

### NEW Improving Traffic Signal Operations

For elected and appointed officials and the public, this report describes how properly timed and operated signals can reduce congestion and lead to improvements in time savings, environmental benefits and safety. Topics include strategies; how signals work; when are signals needed; maintenance; legal aspects; and funding for improvements. Prepared by ITE under a grant from the U.S. Federal Highway Administration. ITE, 1995.16 pp. *Publ. No. IX-081; \$15 (\$20).*

### In Pursuit of Speed: New Options for Intercity Passenger Transport

The report of a committee's effort to assess the applicability of high-speed ground transportation technologies to meet the demand for passenger transportation service in high-density travel markets and corridors in the United States. Covers high-speed technologies and U.S. proposals. TRB Special Report 233. TRB, 1991.179 pp. *Publ. No. LP-221; \$22.*

### In-Service Experience with Traffic Noise Barriers

The purpose of this synthesis is to assess the state of the practice used by state highway agencies related to the design, construction, and maintenance of traffic noise barriers. NCHRP Synthesis 181. TRB, 1992. 62 pp. *Publ. No. LP-252; \$8.*

### In-Vehicle Information Systems: Modeling Traffic Networks and Behavioral Considerations 1991

Papers pertaining to in-vehicle information systems. Transportation Research Record 1306. TRB, 1992.91 pp. *Publ. No. LP-224; \$17.*

### Incentive Programs to Improve Transit Employee Performance

Overview of current practice in employee incentive programs. Observations on establishing incentive programs in public transit agencies and information on the types of incentive programs in transit organizations. Describes samples of programs in use, and offers general perceptions from a survey of public transit agencies. TCRP Synthesis 3. TRB, 1994.44 pp. *Publ. No. LP-358; \$12.*

### Informational Guide for Roadway Lighting, An

Revised to reflect current practices in roadway lighting. Sections on rest area lighting and lighting maintenance are included. The trend to higher mounting heights is recognized. AASHTO, 1985.36 pp. *Publ. No. LP-326; \$7.*

### Innovations in Construction

Contains information on statistically based specifications, life-cycle performance of bridges, robotics in construction, and nighttime construction operations. Of interest to state and local engineers of materials, construction, maintenance, and bridge design, as well as contrac-



tors and material producers. Transportation Research Board Record 1389. TRB, 1993,45 pp. *Publ. No. LP-285; \$18.*

### **Innovations in Travel Behavior Analysis, Demand Forecasting, and Modeling Networks**

Four topic areas discussed are travel behavior models and simulation, modeling telecommunications attitudes and preferences, mode choice applications, and transportation planning modeling and applications. Transportation Research Record 1413. TRB, 1993,149 pp. *Publ. No. LP-335; \$31.*

### **Innovations in Travel Survey Methods**

Presents a variety of innovative techniques to monitor, collect, and disseminate travel survey information. Transportation Research Record 1412. TRB, 1993,94 pp. *Publ. No. LP-346; \$24.*

### **Integrated Traffic Safety Management in Urban Areas**

Integrated traffic safety programs are increasingly considered by urban authorities as an important element of public management. This report provides an up-to-date summary of current experience, highlighting requirements for successful implementation. OECD, 1990,121 pp. *Publ. No. LP-174; \$25.*

### **Integration of Bicycles and Transit**

For transit agency managers, bicyclists and other personnel interested in this subject, including aspects such as safety, equipment procurement, scheduling and interjurisdictional cooperation. Information on bicycle-on-bus, bicycle-on-rail and bicycle-on-ferry programs is included. TCRP Synthesis 4. TRB, 1994,58 pp. *Publ. No. LP-359; \$12.*

### **NEW Intelligent Transportation Systems: Evaluation, Driver Behavior, and Artificial Intelligence**

The papers in this volume focus on various aspects of intelligent transportation system. Discussed are such aspects as criteria for evaluating ITS; defining concepts of automated highway systems; the influence of traffic information on driver behavior; a solution to the hydrodynamic model for a morning freeway commute; a fuzzy set theory to improve freeway incident management; the application of artificial

neural networks to ITS; the use of AI in urban rail corridor control; and neural networks in short-term traffic flow prediction. Transportation Research Record No. 1453. TRB, 1994,104 pp. *Publ. No. LP-375; \$26.*

### **NEW Intelligent Transportation Systems Projects**

This publication describes the ITS projects funded by the Department of Transportation modal administrations including the FHWA, the FTA and the NHTSA. The report also provides a progress status of the ITS program using the milestones from the Department of Transportation's ITS Strategic Plan. (Updated January 1995 from "Intelligent Vehicle Highway Systems Projects," March 1994). LJS DOT, 1995,421 pp. *Publ. No. LP-305B; \$5.*

### **Intelligent Vehicle Highway Systems**

Results of studies focusing on intelligent vehicle highway systems. Specific areas covered include models, architecture, lateral guidance, and in-vehicle navigation. Transportation Research Record 1408. TRB, 1993,124 pp. *Publ. No. LP-343; \$28.*

### **Intelligent Vehicle Highway Systems: Review of Field Trials**

Provides an overview of up-to-date IVHS research developments and an independent assessment of early results from pilot experimentation with road vehicle communication systems in twenty-two of the most advanced field trials and multipurpose sites in Japan, Europe and North America. OECD, 1992,104 pp. *Publ. No. LP-249; \$40.*

### **Interchange Operations on the Local Street Side: State of the Art**

Provides a state-of-the-art review of interchange operations. Includes definitions and characteristics and four papers. Highlights interchange issues. Circular 430. TRB, 1994, 51 pp. *Publ. No. LP-367; \$13.*

### **Interim Selected Metric Values for Geometric Design**

Published as an addendum to A Policy on Geometric Design of Highways and Streets, this title identifies certain selected geometric design elements (E.g. speed, lane width, shoulders, vertical clearance, clear zone, curb, sight distance, horizontal curvature, and structures) as critical elements in metric conversion. AASHTO, 1993,20 pp. *Publ. No. LP-324; \$4.50.*

### **Intermodal Freight Transportation, 2nd ed.**

Examines the state-of-the-art for intermodal freight transportation. Topics covered include government regulation and deregulation, types of intermodal movements, middleman, terminals and cargo-handling equipment, containers, marketing, and competition. ENO, 1989,243 pp. *Publ. No. LP-350; \$35.*

### **Intersection and Interchange Design**

Compiles current design information on intersections and interchanges. Includes papers covering topics such as planning and design, pedestrian accommodations, safety improvements, ramp design, left-turn lanes, two-lane loop ramps, human factors, and more. Transportation Research Record 1383. TRB, 1993, 171 pp. *Publ. No. LP-280; \$33.*

### **Intersection Channelization Design Guide**

Provides a comprehensive collection and evaluation of current knowledge about design of channelized intersections. Presents functional "bases" or reasons for design of various intersection elements. NCHRP Report 279. TRB, 1985,153 pp. *Publ. No. LP-122; \$25.*

### **Introduction to Roadway Signs and Markings**

This self-instructional workbook introduces students to regulatory and warning signs, guide signs and supportive services, field placement of signs, and roadway markings and markers. Includes post-training exams and answers. ITE, 1984,583 pp., wirebound. *Publ. No. ZOO CT; \$10 (\$7.50).*

### **Issues in Control of Urban Traffic Systems**

Proceedings of the Engineering Foundation Conference on Issues in Control of Urban Traffic Systems, June 28-July 3,1981. Includes 27 papers, and also reports on experience with computerized traffic signal systems in Memphis, Dade County, Minneapolis, Maryland and Charlotte. United Engineering Trustees, 1981,267 pp. *Publ. No. LP-021; \$5.*

*To place an order, complete and return the order form on back cover to: Institute of Transportation Engineers, 525 School Street, S. W., Suite 410, Washington, DC 20024-2797 USA. Orders can also be placed by Fax (2021863-5486) or telephone (2021554.8050).*

## NEW Issues in Land Use and Transportation Planning, Models and Applications

This volume contains papers focusing on various aspects of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA), design issues in land use and transportation, land use models, and traffic generation (regional, shopping, traffic volume and classification, and multimodal trip distribution). Transportation Research Record No. 1466. TRB, 1994.131 pp. *Publ. No. LP-374; \$30.*

## Issues Surrounding Highway and Roadside Safety Management

Specific topics include data requirements, accident and cost/benefit analysis, warrants for roadside improvements, installation/maintenance guidelines for roadside hardware, monitoring and evaluation, and management of highway safety. Transportation Research Circular 416. TRB, 1993,103 pp. *Publ. No. LP-306; \$20.*

## ISTEA and Intermodal Planning Concept Practice Vision

Contains the proceedings of the National Conference on ISTEA and Intermodal Planning Issues: The Concept, The Practice, The Vision, which was held in Irvine, Calif., Dec.2-4,1992. Transportation research Board Special Report 240. TRB, 1993,171 pp. *Publ. No. LP-287; \$28.*

## ITE Elected Leadership Manual

This manual outlines the various documents, reports, and activities that the elected leadership of ITE might come across, with references to services and sources of additional information. ITE, 1992.60 pp. *Publ. No. OP-006; \$10 (\$5).*

## ITE Journal-back issue

The official publication of the Institute of Transportation Engineers. Includes peer-reviewed technical articles, news of ITE activities and members, new product information, legislative updates, professional services directory, positions wanted/available listing, and product advertisements. Published monthly. ITE. 64 pp. *Publ. No. PP-999; \$5.*

## ITE Journal-one-year subscription, other countries

The official publication of the Institute of Transportation Engineers. Includes peer-reviewed

technical articles, news of ITE activities and members, new product information, legislative updates, professional services directory, positions wanted/available listing, and product advertisements. Published monthly. (3 years-\$160) ITE. 64 pp. *Publ. No. PP-IOOC; \$70.*

## ITE Journal-one-year subscription, U.S., Canada, Mexico

The official publication of the Institute of Transportation Engineers. Includes peer-reviewed technical articles, news of ITE activities and members, new product information, legislative updates, professional services directory, positions wanted/available listing, and product advertisements. Published monthly. (3 years-\$120) ITE. 64 pp. *Publ. No. PP-IOOA; \$50.*

## ITE Overview/The Transportation Engineer: Working Toward Making Transportation Safe and Efficient

This two-part videotape first presents a synopsis of the Institute's purpose, membership and services. Suitable for current and prospective ITE members. The second part describes the importance of transportation and summarizes the diversity of the transportation engineer's role. Suitable for career days and presentations before civic groups and local officials. ITE, 1984. 31 minutes; specify Beta or VHS format. *Publ. No. VHS-001; \$25.*

## ITE Publications Index-MS-Dos Version

The index contains all current ITE publications; publications by others that are sold through the ITE Bookstore; and ITE Journal articles and papers included in Annual Meeting and conference Compendiums of Technical papers that have been published between 1975 and 1994. The database is indexed by key word, author, date, and more, and is available as a FileMaker Pro 2.0 (by Claris Corp.) database and as a tab-delimited text file. ITE, 1993. *Publ. No. PP-034; \$100 (\$75).*

## NEW ITS in Europe '94-ITE ITS European Tour Report

Documents the observations and analysis of specific ITS applications and the general state-of-the-art of ITS in Europe. It includes reports on the findings of participants of the 1994 ITE ITS study tour of Europe. ITE, 1996. *Publ. No. PP-051; \$65 (\$50).*

## ITS in North America: A Report Prepared by Participants of the ITS in America '94 Study Tour

This report documents the site, visits, technical summaries, tour notes and other information gathered during the ITS North America '94 Study Tour, a study tour on Intelligent Transportation Systems (ITS), sponsored by the Federal Highway Administration and ITE. ITE, 1994.64 pp. *Publ. No. PP-046; \$65 (\$50).*

## IVHS in Europe 1993-A State of the Science Report Prepared by the Participants of the 1993 ITE IVHS Study Tour

Documents the observations and analysis of specific IVHS applications in the Netherlands, Germany, and France, and the general state-of-the-art of IVHS in Europe. It includes reports on the findings of participants of the 1993 ITE IVHS study tour of Europe. ITE, 1994.64 pp. *Publ. No. PP-043; \$65 (\$50).*

## IVHS Strategic Plan Report to Congress

This report to Congress sets forth and describes the Department of Transportation's programs and program delivery processes for supporting the development and deployment of intelligent vehicle-highway system (IVHS) technologies and services in the United States. USDOT. 1992,67 vv. *Publ. No. LP-307; \$5.'*

## K

### Killer Roads: From Crash to Verdict

Written for attorneys, but useful to transportation engineers. Discusses legal analysis, factual criteria for evaluation, and practical trial skills. Covers the full range of problems and hazards of transportation facilities. Offers guidelines for consideration of evidentiary factors and presents practical techniques for successful litigation. By Richard S. Kuhlman. Michie Co., 1986. 651 pages, casebound. *Publ. No. LP-135; \$65.*

## L

### Landside Access to U.S. Ports

Report on identifying landslide access problems and potential solutions for general cargo marine terminals in U.S. ports, Discusses bulk

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terminals, as well. TRB Special Report 238. TRB, 1993.198 pp. *Publ. No. LP-264; \$28.*

## Large Vehicle Safety: Transit and Trucks 1991

The first three papers are about transit buses. The fourth concerns drug testing in the transit industry. The remaining four papers deal with truck accident databases, accident rates, and risk and accident experience. Transportation Research Record 1322. TRB, 1991. 69 pp. *Publ. No. LP-231; \$20.*

## Light Rail Transit Grade Separation Guidelines

Focuses on the question of when to grade separate crossings of light rail track and roadways. Reports on work that has been done to date and draws conclusions that can be used as guidelines for light rail planning and design. By Technical Council Committee 6A-42, chaired by Thomas J. Stone. An Informational Report. ITE, 1992.48 pp. *Publ. No. 1X-058; \$20 (\$15).*

## Livable Streets

Results of a lo-year study on the impacts of traffic and transportation in residential environments. Suggests programs that include specific traffic control and street improvements to control the speed and volume of traffic and to improve residential safety. For urban designers and planners, transportation engineers and landscape architects. By Donald Appleyard. University of California Press, 1981.364 pp., soft cover. *Publ. No. LP-008; \$17.*

## Local Public Relations in Transportation Matters

Reviews the public relations function and its role in transportation engineering. Concentrates on methods and techniques used to inform the public about transportation projects and to improve citizen participation. By Technical Council Committee 2-12, chaired by Martin E. Lipinski. An ITE Informational Report. ITE, 1978/1983.24 pp. *Publ. No. 1X-027; \$10 (\$5).*

## Location and Design of Bus Transfer Facilities

Design of various elements of bus transfer facilities, criteria that describe conditions where basic facility types could be located, and other policy-oriented issues. Includes discussion of a number of

planning concerns that may be considered in the location and design of bus transfer facilities. By Technical Council Committee 5C-1A, chaired by Paul C. Box. An Informational Report. ITE, 1992.62 pp. *Publ. No. IR-024A; \$20 (\$15).*

## Look Ahead: Year 2020, A

Proceedings of the Conference on Long-Range Trends and Requirements for the Nation's Highway and Public Transit Systems, June 22-24,1988. Resource papers present a variety of expert views on the potential impacts on the nation's future transportation system. Special Report 220. TRB, 1988.551 pp. *Publ. No. LP-152; \$20.*

# M

## Maintenance Management of Street and Highway Signs

Detailed information on the current practices of state and local governments in managing the maintenance of street and highway signs within their jurisdictions, including the rationale for these practices. Covers inspection, refurbishing, and replacement practices, along with information on equipment and personnel requirements. NCHRP Synthesis of Highway Practice 157. TRB, 1990.134 pp. *Publ. No. LP-295; \$12.*

## Maintenance of Roadway Pavement and Structures

Findings from research efforts designed to formulate and assess the effectiveness of techniques for extending functional life of roadway pavements and structures. The papers, which were presented at the 1993 TRB Annual Meeting, are separated into three categories: pavements, pavement joints and cracks, and structures. Transportation Research Record 1392. TRB, 1993,148 pp. *Publ. No. LP-298; \$31.*

## Management and Control of Urban Traffic Systems

Proceedings of the Engineering Foundation Conference, June 14-19, 1987. Papers or summaries of presentations made, including: adapting computer control of signal systems, modeling and optimizing signal networks, managing freeway corridor systems, techniques and technology, and (e) in-vehicle route guidance systems. Edited by Sam Yagar. Engineering Foundation, 1988.400 pp. *Publ. No. LP-212; \$5.*

## Management of Damaging Traffic Queues

Provides a general discussion of damaging traffic queues-that is, queues that block intersections or access points or that interfere with the progression of traffic-and suggests techniques that may be useful in their management. Although there are no queue management techniques that always work, the techniques discussed will give an understanding of the phenomena so that the engineer can devise an appropriate remedy for each situation. By Technical Council Committee 4A-24, chaired by Paul Ross. ITE, 1988.16 pp. *Publ. No. 1X-051; \$20 (\$15).*

## Management of Traffic Signal Maintenance

Discusses management aspects of signal maintenance. Contains information on types of maintenance, personnel needed, equipment and facilities required, organization, costs, and controls. NCHRP Synthesis of Highway Practice 114. TRB, 1984.134 pp. *Publ. No. LP-105; \$10.80.*

## Manual of Traffic Detector Design

Provides a step-by-step procedure for designing, operating and evaluating traffic detectors at signalized intersections. Sufficiently general to accommodate the detector layout and timing preferences of most agencies. Supplements and extends the information in Chapter 4 of the Traffic Detector Handbook. By James A Bonneson and Patrick T. McCoy. ITE, 1994.89 pp. *Publ. No. LP-357; \$20 (\$15).*

## Manual of Traffic Signal Design, 2nd ed.

Covers traffic signal fundamentals. Offers wiring and cabling specifics; guides readers through preparing contractual documents; and explains construction supervision. This new edition reflects changes in the warrants in the Manual on Uniform Traffic Control Devices, the NEMA standards, and the FHWA Federal Procedures Manual. By James H. Kell and Iris J. Fullerton. ITE/Prentice-Hall, 1991. 256 pp. *Publ. No. TB-005A; \$69.*

*To search by subject, rather than alphabetically, refer to the Index by Subject that begins on page 33.*



### Manual of Transportation Engineering Studies, 1st ed.

Shows in detail 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. Edited by H. Douglas Robertson. ITE, 1994.624 pp. *Publ. No. TB-012; \$65.*

### Manual of User Benefit Analysis of Highway and Bus Transit Improvements, A

This manual provides cost factors, monographs and guidelines for estimating the benefits of highway and bus-transit improvements on highway and transit users. Photocopy. AASHTO, 1977,189 pp. *Publ. No. LP-334; \$35.*

### Manual on Uniform Traffic Control Devices

Incorporates all revisions that have been approved through official rulings by the Federal Highway Administrator. Sets forth the basic principles that govern the design and usage of traffic control devices for all streets and highways open to public travel, regardless of type or class or the governmental agency having jurisdiction. USDOT/FHWA, 1988.591 pp. *Publ. No. LP-140; \$44/.set.*

### Meeting Continuing Education Needs Through Short Courses

This Informational Report summarizes a literature review and questionnaire regarding the need for continuing education. It provides information on short courses offered by various agencies. Prepared by ITE Technical Council Committee 2-43, Nelson Evans, chair. ITE, 1994,69 pp. *Publ. No. 1X-074; \$10 (\$5).*

### Membership Prospectus

Information on, and applications for, membership in the Institute of Transportation Engineers. ITE. *Publ. No. PP-010; Free.*

### Methods of Cost-Effectiveness Analysis for Highway Projects

Discusses cost-effectiveness analysis as a method of assessing the worth of projects by providing information about costs, benefits, and impacts in a manner that facilitates broadly based decisions. A useful record of practices that were acceptable within the limitations of the knowledge available at the time of report preparation. NCHRP Synthesis 142. TRB, 1988.22 pp. *Publ. No. LP-150; \$7.*

### More for Less with HOV-The Benefits of High-Occupancy Vehicle Projects

Describes the benefits of high-occupancy vehicle (HOV) lanes as an effective tool to alleviate traffic congestion. Includes material on the concerns, legal aspects, and environmental impact of HOV lanes and the keys for their successful implementation. Contains descriptions and information on several successful HOV projects in the United States. Authored by Katherine F. Turnbull. ITE, 1993,16 pp., saddle-stitched. *Publ. No. LP-252; \$20 (\$15).*

### Motor Vehicle Accident Reconstruction and Cause Analysis

Describes physical factors, such as the functioning of various vehicle components and their safety-critical contribution, and gives a mathematical description of a variety of different aspects of accident reconstruction. Written to assist lawyers, claims adjusters, transportation engineers, and investigating officers in motor vehicle accident reconstruction and cause analysis. By Rudolf Limpert. Michie Co., 4th ed., 1994.843 pp., casebound. *Publ. No. LP-002; \$85.*

# N

### National Conference on Advanced Technologies in Public Transportation

Contains the proceedings of the National Conference on Advanced Technologies in Public Transportation held in San Francisco, Calif., Aug. 16-19,1992. The three general tracks of the conference included Customer Service Technologies, Transit and Traffic Operations Technologies, and Facility Operations and Vehicle Technologies. Transportation Research Board Circular 410. TRB, 1993,115 pp. *Publ. No. LP-288; \$21.*

### New Technology for Urban Goods Movement

Covers automated freight handling, stratified charge engines, LP gas (propane) propulsion, transportation system management methods, service vehicle vanpools and electric trucks. Discusses operating costs and characteristics. By Technical Council Committee 6F-23, chaired by Marsha Dale Anderson. An ITE Informational Report. ITE, 1984.50 pp. *Publ. No. 1X-031; \$15 (\$10).*

### Nonmotorized Transportation

Papers on nonmotorized transportation in the People's Republic of China and in Asia and other areas of the world. Transportation Research Record 1372. TRB, 1992. 101 pp. *Publ. No. LP-262; \$22.*

### North American Traffic Signal Inventory

A summary of the results of ITE's 1991 survey of traffic signals and traffic signal systems in U.S. and Canadian jurisdictions with populations larger than 50,000. The information will be used to help identify the status and needs of traffic signals in North America and to promote programs that will meet those needs. ITE, 1992.9 pp. *Publ. No. PP-025; \$25 (\$10).*

### Nuts and Bolts of Jolts, The

This videotape addresses the problem of damage to traffic control equipment caused by electrical noise and transients (voltage spikes and surges) due to lightning, switching, and radiated electromagnetic interference (EMI) from radio and TV stations, radar, and mobile radio transmitters. Describes procedures, practices and specifications for the protection of traffic control equipment and other types of equipment operated by transportation agencies. Based on NCHRP' Report 317 (Pub. No. LP-157). FHWA, 1993. Running time: 22 minutes. *Publ. No. VHS-022; \$30 (\$25).*

# O

### One-Minute Commuter-How to Keep Your Job and Stay at Home Telecommuting, The

In this day and age, it is possible to stay at home and be a productive member of your office team through telecommuting. This book has helpful tips on how to make the most of telecommuting, including a

**P** chapter that helps you think through your decision to telecommute. By Lis Fleming. Fleming Ltd., 1989. 104 pp. *Publ. No. LP-246*; **\$9.95**.

### **Open Roads: A Look at Freeway Incident Management**

This video is intended for top-level management, elected officials, citizen groups and others. Depicts in clear, nontechnical language the severity of the incident problem and offers effective and practical solutions. Touches upon a broad range of proven, successful incident management strategies, including many simple, low-cost procedures that can be readily adopted. USDOT FHWA, 1991.20 minutes. VHS format. *Publ. No. VHS-009*; **\$25**.

### **Operation and Management 1991**

Presents an analysis and synthesis of the national report drafted by several countries in reply to a question on operations and management. Topics covered include traffic and traffic management, information for road management, and systems for road management. PIARC, 1991,88 pp. *Publ. No. LP-316*; **\$9**.

### **Operational Effects of Geometries and Geometric Design**

A collection of papers concerning inconsistencies and accident experience on two-lane highways; safety effects; sight-distance design; non-traversable medians and two-way left-turn lanes; impacts of wider trucks on narrow roadways; and much more. TRB, 1992.89 pp. *Publ. No. LP-248*; **\$21**.

### **NEW Operations and Maintenance of Electronic Traffic Control Systems**

Presents detailed information and recommendations on a broad range of issues affecting the operations and maintenance of computerized signal systems and freeway advanced traffic management systems. Topics include funding, staffing, organizational structure, personnel, standards, liability, institutional cooperation, procurement, and education. Includes findings and recommendations generated from white papers, a national conference, surveys of agencies, a literature search, and expert panels. The report is the result of a 3-year effort by HE, funded by the U.S. Federal Highway Administration. ITE/FHWA, 1995.122 pp. *Publ. No. 1X-083*; **\$30 (\$25)**.

### **Over the Long Haul**

The first in a three-part, videotape documentary series "Coming and Going," of which ITE was a contributor. This segment examines freight transportation. Also sold as a set with the other two installments, "Coast to Coast" and "Road to the Future." The series, which aired on PBS, is an excellent overview for the nonengineer on how transportation is vital to daily life. WETA, 1994.60 minutes. *Publ. No. VHS-016*; **\$75**.



Addresses key questions commonly associated with parking regarding parking supply, location, design, cost and financing, and management and operation. The purpose of this monograph is to show how the benefits of parking can be maximized and adverse effects minimized. ENO, 1990,335 pp. *Publ. No. LP-351*; **\$35**.

### **Parking for Industrial and Office Parks**

Provides a comprehensive review of elements critical to efficient and successful planning, design, construction, and maintenance of parking areas and facilities. Includes a historical perspective, results of an extensive survey of developers, designers, and planners; and appendices that include examples of protective covenants. Ronald Derven and Carol Feder, editors. NAIOP, 1986.321 pp. *Publ. No. LP-119*; **\$31.20**.

### **Parking Generation**

A comprehensive source of parking occupancy rates for land uses and building types, this report is intended to be used by transportation professionals, developers, planning boards, and others involved in determining parking demand. 2nd ed. By ITE Technical Committee 5-BB, chaired by S. J. Johnson. ITE, 1987. 185 pp., spiralbound. *Publ. No. IR-034A*; **\$85 (\$60)**.

### **Parking Handbook for Small Communities, The**

A step-by-step manual for planning parking, written for the nonparking professional, but helpful to the engineer as well. For small communities that might not have the personnel experienced in parking operations, design and administration. By John D. Edwards Jr.

ITE/National Trust for Historic Preservation, 1994.107 pp. *Publ. No. TB-013*; **\$45**.

### **Parking Lot Landscaping**

Provides guidelines for developing landscaping regulations for parking lots and assessing existing approaches to parking lot landscape regulation. Reviews and analyzes literature on parking lot landscaping and some of the parking lot landscaping provisions now in use in zoning and other ordinances. By Margaret A. Corwin. APA, 1978.31 pp. *Publ. No. LP-084*; **\$24**.

### **Parking Requirements for Shopping Centers: Summary Recommendations and Research Study Report**

Summarizes responses from 506 shopping centers, parking accumulation counts from 136 centers, annual daily counts from 22 centers, and 15 in-depth case studies for a comprehensive base for shopping center parking standards. ULI, 1982. 136 pp. *Publ. No. LP-089*; **\$40.95**.

### **Participants Report IVHS European Study Tour-i 991**

Observations by participants in the tour on the current state of the science in four European countries, and potential applications in the United States. Applications in England, the Netherlands, Germany and France are covered. ITE, 1991. *Publ. No. PP-031*; **\$40**.

### **Pedestrian Accidents and Left-Turning Traffic at Signalized Intersections**

This report explores and develops models relating the expected number of accidents involving left-turning vehicles and pedestrians to the flow of left turning-vehicles and the flow of pedestrians. AAA, 1993,1B pp. *Publ. No. LP-294*; **\$15**.

### **Pedestrian, Bicycle, and Older Driver Research**

Three distinct topics include: bicycling, pedestrians, and older drivers. Specific topics covered include: bicycling accident data, environments benefits, pedestrian level of service, and older driver license reexamination. Transportation Research Record 1405. TRB, 1993.86 pp. *Publ. No. LP-340*; **\$24**.

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### Performance and Operational Experience of Truck-Mounted Attenuators

Of interest to maintenance, construction, and traffic engineers, and others interested in the use of safety apparatus for highway operations. Information is provided on the performance and operational experience of truck-mounted attenuators, including physical characteristics, test results, and guidelines for use. NCHRP Synthesis 182. TRB 1992.54 pp. *Publ. No. LP-258; \$9.*

### NEW PIARC CD-Route

The main and most recent World Road Association (PIARC) reports published from 1991 to 1995, in English and French, totaling 540 complete reports or bibliographic references. Areas covered: road terminology; road policies; economics and finance; safety, environment; traffic; urban areas; interurban areas; materials and tests; earthworks and pavements; road bridges and tunnels; road maintenance, operation and management; and technology transfer. This includes information on PIARC; OECD publications catalog; a thesaurus in French, English and German; dictionary of road terms in English, French and Spanish; English-French lexicon; and bibliographic references of other PIARC publications. Those purchasing this volume will have a reduced price for the update, which is due out in 1997. PIARC, 1996. Approx. 8,000 pages on one CD. *Publ. No. LP-380; \$200.*

### Planning and Programming, Land Use, Public Participation, and Computer Technology in Transportation

Focuses on planning and programming, public involvement, transportation-land use interactions, and computer technology in transportation. Transportation Research Record 1400. TRB, 1993.112 pp. *Publ. No. LP-301; \$25.*

### Planning Urban Arterial and Freeway Systems

Provides an overview of the planning process for such systems and the relationships to public transportation and land use planning. (This report supersedes the proposed recommended practice of the same name, published in 1985.) An ITE Recommended Practice, by Technical Council Committee 6Y-19, chaired by Brian S. Bochner. ITE, 1988.60 pp. *Publ. No. RP-015A; \$25 (\$20).*

### Planning/Design Features and Case Studies in Freeway Reconstruction

Discusses improvement features in relation to major freeway elements of cross section and alignment, interchanges, crossroads, frontage and collector-distributor roads, and system considerations. Presents a variety of actual freeway reconstruction examples. By Jack E. Leisch; reprinted from ITE Journal. ITE, 1984.18 pp. *Publ. No. LP-096; \$15 (\$10).*

### Policy on Geometric Design of Highways and Streets 1994 (metric), A

Known as the "Green Book," this new metric edition discusses the geometric features of rural and urban highway design. Contains design practices in universal use as the standard for highway geometric design. This edition supersedes the 1990 "Green Book" and its addendum Interim Selected Metric Values for Geometric Design. AASHTO, 1994.1,088 pp. *Publ. No. LP-323A; \$62.50.*

### Portable Bulb-Type Changeable Message Signs for Highway Work Zones

Provides a guide for the preparation of specifications for portable bulb-type changeable message signs. An ITE Equipment Standard, by Technical Council Committee 75-3, chaired by John J. Logan. ITE, 1994, 3 pp. *Publ. No. ST-020; \$7.50 (\$5).*

### Preemption of Traffic Signals at or Near Active Warning Railroad Grade Crossings

This Proposed Recommended Practice supplements the requirements set forth in the MUTCD and other reference books regarding the use of preemption of traffic signals at or near active warning grade crossings. Prepared by ITE Technical Council Committee 4M-35, Willard Alroth, chair. ITE, 1994, 13 pp. *Publ. No. RP-025; \$15 (\$10).*

### Preemption of Traffic Signals at or Near Railroad Grade Crossings

Provides recommended preemption of traffic signal sequences for selected geometric configurations. An ITE Recommended Practice, by Technical Council Committee 4W-A, chaired by Dennis D. Kyrk. HE, 1979.13 pp. *Publ. No. RP-009; \$8 (\$5).*

### Preferential Lane Treatments for High-Occupancy Vehicles

Describes the state of the art with respect to preferential treatment for high-occupancy vehicles on highways. Planning, design, and operational features of each treatment are described. The issues and operating results are described, and specific case studies are included. NCHRP Synthesis 185. TRB, 1993. BO pp. *Publ. No. LP-281; \$10.*

### Primer on Intelligent Vehicle Highway Systems

This primer provides a source of basic information on IVHS technology, technologies, and activities. The primer includes brief descriptions of major U.S. operational field tests, and information on the roles of various U.S. standards-setting organizations and federal agencies involved in IVHS. Transportation Research Circular 412. TRB, 1993.58 pp. *Publ. No. LP-290; \$15.*

### Primer on Transportation, Productivity, and Economic Development

Describes methodologies available to analyze the relationships between transportation and the economy, evaluates the methodologies and the state of knowledge resulting from their use, and documents what is known about the relationship between transportation and the economy. NCHRP Report 342. TRB, 1991.111 pp. *Publ. No. LP-218; \$12.*

### Private and Public Investment in Transport

Europe's transport links with its periphery are still inadequate, while some more central areas are plagued with traffic congestion. This report takes stock of the problems and considers the contribution private capital could bring in funding transport infrastructure. ECMT, 1990. 109 pp. *Publ. No. LP-271; \$17.*

### Privatization of Public Transit Services

Includes a discussion of federal government initiatives in this area, as well as case studies of transit privatization activities in the United States during the mid to late 1980s. By Technical Council Committee 6A41, chaired by Anthanasios K. Bladikas. An Informational Report, ITE, 1992.30 pp. *Publ. No. IR-062; \$15 (\$10).*

**R** **Problem of Reduced Accident Reporting, The**  
Summarizes response to ITE's 1983 level-of-accident reporting survey. Includes a copy of the paper presented by Thomas Hicks at the July 1983 National Safety Council Traffic Records Forum in St. Paul, Minnesota. An ITE Issue Paper. ITE. 24 pp., photocopy. *Publ. No. IP-005; \$5.*

**Progress Report on Maintenance and Operations Personnel**  
This report on salary comparison was sponsored by the TRB Committee on Maintenance and Operations Personnel and prepared by the Classification and Staffing Section of the Division of Human Resources of the Texas Department of Transportation in cooperation with the AASHTO Subcommittee on Maintenance. Transportation Research Record 402. TRB, 1993.44 pp. *Publ. No. LP-256; \$4.*

**Proper Location of Bus Stops**  
Describes considerations and characteristics needed to decide proper location and design of a bus stop. An ITE Recommended Practice. ITE, 1967/1985.4 pp. *Publ. No. RP-003; \$5 (\$3).*

**NEW Proposed Interim Purchase Specification: Light Emitting Diode (LED) Vehicle Traffic Signals Assemblies**  
ITE has developed the Draft Interim Specification for Light Emitting Diode (LED) Vehicle Traffic Signal Assemblies. The draft specification is the result of a joint effort by traffic industry manufacturers/suppliers and traffic engineers coordinated by the ITE Traffic Engineering Council and the ITE Industry Council. The draft interim LED specification provides the minimum performance requirements for 300 mm (12-inch) and 200 mm (8-inch) LED vehicle traffic signals. This specification applies to both circular ball and arrow LED signals purchased after February 1996. This specification does not apply to LED signal assemblies purchased prior to February 1996 or to programmable LED traffic signals. ITE, 1995. 9 pp. *Publ. No. ST-021; \$10 (\$5).*

**Providing Access for Large Trucks**  
Reports on the results of a congressionally mandated study on a nationwide policy to allow large trucks traveling on the national network of interstate and other major

highways reasonable access to terminals and facilities. Covers historical and regulatory overview, STAA vehicle use and productivity, accident studies, highway design and accident risk, traffic operations and safety, and highway condition. Special Report 223. TRB, 1989.316 pp. *Publ. No. LP-154; \$25.*

**Public Outreach Handbook for Departments of Transportation**  
Recommendations to transportation departments on programs and techniques to better inform the public of transportation issues, and examples of effective applications. NCHRP Report 364. TRB, 1994.37 pp. *Publ. No. LP-360; \$24.*

**Public Transit: Bus, Paratransit, and Ridesharing**  
Contains research papers and reports of studies grouped into three parts: bus operations, paratransit, and ridesharing. Transportation Research Record 1390. TRB, 1992. 101 pp. *Publ. No. LP-242; \$22.*

**NEW Public Transport: The Challenge**  
Subjects covered include growing demand for urban mobility; public transport and the environment; public transport and land use; paying for public transport; and traffic management and public transport. UITP, 1995.147 pp. *Publ. No. LP-379; \$30.*

**Public Transportation**  
A revised and updated edition is for practitioners, as well as a textbook for students. The chapters include examples and case studies that serve to illustrate major points. Covers both public transit service and paratransit services that are available to the general public. By George E. Gray and Lester A. Hoel. 2nd ed. Prentice-Hall, 1992.750 pp. *Publ. No. LP-004A; \$75.*

**R** **Ramp Metering: Signal for Success**  
This videotape explains the principles and benefits of freeway ramp metering by showing examples of successful projects in Los Angeles, Denver and Minneapolis. Also explains urban traffic congestion and addresses several key issues, such as safety, efficiency, equity, and public relations. The intended audience is public officials and citizens. USDOT/FHWA, 1989.1230 minutes, VHS format. *Publ. No. VHS-008; \$25.*

**Recommended Practices for Use of Traffic Barrier and Control Treatments for Restricted Work Zones**  
Provides guidelines, developed from empirical and analytical studies, intended to enhance the safety of the motoring public and construction workers. NCHRP Report 358. TRB, 1994.112 pp. *Publ. No. LP-338; \$25.*

**Recommended Procedures for the Safety Performance Evaluation of Highway Appurtenances**  
Contains the proceedings of a workshop on Roadside Safety Features, held in Sacramento, Calif., Aug.15-16,1988. Include the written version of eight presentations, discussion topic questions, and the summaries of four break-out group discussions. An update of NCHRP Report 230. TRB, 1991.57 pp. *Publ. No. LP-215; \$9.*

**Recommended Procedures for the Safety Performance Evaluation of Highway Features**  
This report is recommended to highway design engineers, bridge engineers, safety engineers, maintenance engineers, researchers, hardware developers, and others concerned with safety features used in the highway environment. NCHRP Report 350 TRB 1993.132 pp. *Publ. No. LP-255; \$13.*

**Reduction of Car Traffic in City Centres and Traffic Control, Toll and Road Information**  
The first of these two reports addresses the increasing problem caused by car traffic in large towns, and provides a number of proposed solutions and their consequences. The second report illustrates the possibilities offered by new technology for a more satisfactory operation of the existing road capacity. PIARC, 1990.96 pp. *Publ. No. LP-321; \$13.*

**Research and Management for Advanced Traffic Signal Systems**  
Reports on planning issues, defining functional requirements and identifying potential research initiatives, and a set of research problem statements, all concerning traffic signal systems. Transportation Research Circular 431. TRB, 1994.35 pp. *Publ. No. LP-368; \$12.*



### Residential Street Design and Traffic Control

Examines basic issues and goals involved in planning, designing, and operating circulation systems in residential neighborhoods to provide a more compatible relationship between home and traffic. Sets forth some procedures for evaluating neighborhood traffic management proposals and suggests strategies for implementation. Stresses the relevance of residential street problems to the basic goals of traffic control. By E. Deakin, P.C. Bosselmann, D.T. Smith, Jr., W.S. Homburger, and B. Beukers. ITE/Prentice-Hall, 1989.192 pp., casebound. *Publ. No. TB-008; \$68.*

### Resolving Municipal Disputes, 2nd ed.

Transportation professionals always get caught in political cross-fire over technical data on traffic analysis, NIMBYs, transit-mall siting, new roads, and much more. When disputes jeopardize a project, what can a transportation professional do? By Dr. David Stiebel, University of California lecturer in Sunnyvale. Association of Bay Area Governments, 1992.60 pp. *Publ. No. LP-245; \$20.*

### NEW Resource Papers for the 1996 ITE International Conference

This material is drawn primarily from written papers developed for the 1996 conference. Topics include intelligent transportation systems; incident management; geographic information systems; congestion management; multimodal mobility; freeway and arterial operations; shared parking management and demand management; signal systems and operations; risk management; safety; transit and transportation demand management; traffic calming; downsizing and consolidation; increasing productivity; jurisdiction and agency intercoordination; developing public participation and support; public/private partnerships; education; and financing transportation improvements. ITE, 1996.231 pp. *Publ. No. PP-052; \$50 (\$35).*

### Resources for Tomorrow's Transport

What resources will the transport systems of the future require? This report clarifies current issues and their future developments. A possible system of regulations adapted to transport requirements is outlined, as well as the effects of new technologies. ECMT, 1989.524 pp. *Publ. No. LP-181; \$47.*

### Revenue Shortfall in Transportation

Discusses the revenue shortfall problem in transportation in the United States. Presents mechanisms for increasing revenues, both from existing sources and from new revenue-producing mechanisms, and approaches for decreasing costs. By Technical Council Committee 6Y-21, chaired by Salvatore J. Bellomo. An ITE Informational Report. ITE, 1986. 12 pp. *Publ. No. IR-044; \$15 (\$10).*

### Review of the ITE Traffic Signal Lamps Equipment Standard, A

This report reviews the current ITE Traffic Signal Lamp Standard and provides recommendations for changes in the development of future editions of this standard. By Technical Council Committee 7S-8A, chaired by Vernon Waight. An Informational Report. ITE, 1994.12 pp. *Publ. No. 1X-068; \$8 (\$5).*

### Rideshare Programs: Evaluation of Effectiveness, TDM Programs, Demand Management, and Commuter Attitudes

Focuses on various aspects of ridesharing and vanpool operations. Discussion includes site location and size of park-and-ride lots; effectiveness of ridematching systems; incentives to increase ridesharing; employer-based programs; effectiveness of on-site parking management programs; and much more. Transportation Research Record 1321. TRB, 1992. 153 pp. *Publ. No. LP-227; \$26.*

### Ridesharing and Transportation for the Disadvantaged

A compilation of papers reporting experiences with ridesharing and transportation systems and services for the disadvantaged. Transportation Research Record 1170. TRB, 1988.86 pp. *Publ. No. LP-147; \$13.*

### Right-Turn-on-Red After Stop

Includes final report of an ITE Task Force (May 1981) on right turn on red; the minutes of the March 6, 1981, ITE forum on right turn on red; and articles describing experiences with RTOR. An ITE Issue Paper. ITE. 67 pp., photocopy. *Publ. No. IP-001; \$5.*

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### Road Design and Traffic Operation Guidelines to Aid the Older Motorists 1991

Addresses road design and traffic operation guidelines to aid the older motorists. Topics covered include general information on older persons, special studies on the older driver, possible countermeasures, and conclusions and recommendations. PIARC, 1991.68 pp. *Publ. No. LP-314; \$11.*

### Road Safety Audits

This Informational Report discusses the practice of auditing new or existing roads for specific purpose of accident prevention as suggested in the 1994 FHWA Safety Program Guidelines. Prepared by ITE Technical Council Committee 4S-07, Ken Ogden, chair. ITE, 1995.12 pp. *Publ. No. IR-076; \$15 (\$10).*

### Road Safety, First and Foremost a Matter of Responsibility

Because the human factor has been shown to be the principal cause of 90 percent of serious road accidents, this report focuses on the responsibility of individuals and society, in particular, road safety training, the television and road safety, and monitoring and enforcement systems. ECMT, 1989.160 pp. *Publ. No. LP-155; \$20.*

### Road to the Future

The last in a three-part, videotape documentary series "Coming and Going," of which ITE was a contributor. This segment shows how the automobile has shaped suburban and urban growth. Also sold as a set with the other two installments, "Over the Long Haul" and "Coast to Coast." The series, which aired on PBS, is an excellent overview for the nonengineer on how transportation is vital to daily life. WETA, 1994.60 minutes. *Publ. No. VI-IS-01 8; \$75.*

### Roadside Design Guide

A synthesis of current information and operating practices related to roadside safety. It focuses on safety treatments that can minimize the likelihood of serious injuries when a motorist leaves the roadway. AASHTO, 1989.286 pp. *Publ. No. LP-330; \$49.25.*

### Roadside Safety 1990

Of the 10 papers in this report, two are concerned with safety aspects of sign supports, four with bridge rails and bridge rail transitions,



three with traffic barriers, and one with a median treatment. Transportation Research Record 1258. TRB, 1990.115 pp. *Publ. No. LP-185; \$21.*

### Roadside Safety Design for Small Vehicles

An evaluation of the performance of highway appurtenances and roadside features when impacted by small vehicles. Emphasis was placed on the evaluation of the impact performance of widely used roadside safety elements for 1,500-pound vehicles and the identification of potential modifications to existing hardware and roadside features that would accommodate vehicles weighing as little as 1,250 pounds. NCHRP Report 318. TRB, 1989.70 pp. *Publ. No. LP-144; \$10.*

### Roadside Safety Features and Landscape and Environmental Design

Addresses roadside safety features, such as the failure of guidedrail, bridge-railing systems, and medians. Several topics concerning highway aesthetics are also discussed. The papers were presented at the 1993 TRB Annual Meeting. Transportation Research Record 1419. TRB, 1993.133 pp. *Publ. No. LP-345; \$29.*

### NEW Roadside Safety Issues

This circular features papers/presentations on: Evolution of Roadside Safety; The Roadside Safety Program; The Evolution of Vehicle Safety and Crashworthiness; Evolution of Vehicle Crashworthiness as Influenced by the National Highway Traffic Safety Administration; Methods for Analyzing the Cost-Effectiveness of Roadside Features; and Applications of Simulation in Design and Analysis of Roadside Safety Features; Data and analysis needs; Selection and design of roadside safety treatments; Efficacy of simulation methods; and Assessing and developing roadside hardware. TRB, 1995. *Publ. No. LP-373; \$22.*

### Roadway Widths for Low-Traffic-Volume Roads

For those involved with highway design, safety, maintenance and administration. Describes the results of comprehensive safety, operational and economic analyses regarding minimum roadway widths for low-volume roads. Presents recommendations for revisions to the design standards pre-

sented in the Policy on Geometric Design for Highways and Streets, 1990 ed., by the American Association of State Highway and Transportation Officials. NCHRP Report 362. TRB, 1994.106 pp. *Publ. No. LP-361; \$25.*

### Route Guidance and In-Car Communications Systems

Reviews advanced information and communication technology systems and developments in OECD countries. Emphasizes the growing importance of developing international standards and joint research. OECD, 1988.104 pp. *Publ. No. LP-136; \$16.50.*



### NEW Safer Roads: A Guide to Road Safety Engineering

A comprehensive review of the best practice approaches of road safety engineering from Europe, North America and Australia-illuminating the practices and procedures used in the identification of hazardous sites and the development of road and traffic counter-measures. Outlines the key components of creating and maintaining a database, methods of statistical analysis, and the essential features of human behavior as they influence road and traffic design. Also covered are the economic appraisal of road safety projects and methods of project monitoring. The intended audience includes those in local government, road and traffic agencies, consultants in road safety engineering, traffic engineering or highway engineering, and students of courses in these disciplines and in road safety. By K.W. Ogden. Ashgate, 1995.516 pp. *Publ. No. LP-382; \$99.95.*

### Safety

Presents an analysis and a synthesis of the national reports drafted by 25 countries in reply to questions regarding the following aspects of safety: statistical assessment and targets, safety factors, management of safety and user behavior, interactions between the roadway and the vehicle, and other innovations and research needed. PIARC, 1991.448 pp. *Publ. No. LP-310; \$18.*

*To search by subject, rather than alphabetically, refer to the index by Subject that begins on page 33.*

### Safety Improvements on Interurban Roads 1991

Part 1 is intended for political decision makers, to persuade them that implementing specific safety programs is useful, getting them to understand that safety operations are not necessarily complicated and expensive. The remainder of the report concerns both decision makers and engineers. PIARC, 1991.108 pp. *Publ. No. LP-309; \$18.*

### Safety Programs and Their Effect on Highway Standards

Analyzes effect of highway safety programs and tort liability on the safety of the U.S. highway system by influencing changes in the standards used by agencies to design, construct, and maintain highways. By Technical Council Committee 5B-10, chaired by James A. Willhite. An ITE Informational Report. ITE, 1986.37 pp. *Publ. No. IR-045; \$20 (\$15).*

### Safety Research: Accident Studies, Enforcement, EMS, Management, and Simulation 1990

Includes a variety of papers related to highway safety research. Part 1 deals with accident studies related to roadway, traffic, and truck characteristics; Part 2 includes reports of research on enforcement, emergency medical services (EMS), safety management, and simulations. Transportation Research Record 1270. TRB, 1990.113 pp. *Publ. No. LP-200; \$18.*

### Safety Research: Enforcement, Speed, Older Drivers, and Pedestrians

Contains research on several safety topics of concern in the United States and internationally. Driver noncompliance with traffic regulations and the amount of enforcement devoted to traffic are of particular concern in urban areas. Transportation Research Record 1375. TRB, 1992.73 pp. *Publ. No. LP-259; \$20.*

### Safety Research: Heavy Vehicles, Information Systems, and Crash Studies and Methods

Research on several aspects of highway safety is presented in this Record. Heavy vehicles continue to pose a safety concern and prompt research. The first four papers cover structural geometric design, commercial driver, and accident countermeasure research related to heavy vehicles. Transportation Research Record 1376. TRB, 1992. 91 pp. *Publ. No. LP-253; \$21.*



### Scenic Byways

Guidelines for creating, administering, and promoting a national bwwavs system and discussion of many of the issues related to the endeavor. Transportation Research Record 1363. TRB, 1992.24 pp. *Publ. No. LP-271*; **\$14**.

### School Pupil Transportation

Guides school personnel and traffic departments in implementing a school trip safety program. The two courses stress the importance of such a program and show how to use data gathering and data analysis in implementing school trip safety programs. The use of standard traffic control devices as they apply to school trips is also studied. Target audience: board of education members, school personnel, parent/teacher organization, traffic safety boards, and local traffic personnel. ITE. Three 35-mm slide cassettes and audio cassette tapes. *Publ. No. 600 series*; **\$300**.

### School Trip Safety Program

Sets out guidelines for improving the safety of young student pedestrians. Intended for use by educational, engineering, enforcement, parent/teacher, and other organizations in a locally planned, coordinated school transportation safety program. An ITE Recommended Practice. By Technical Council Committee 4A-1, chaired by A. Reed Gibby. ITE, 1984.27 pp. *Publ. No. RP-001A*; **\$25 (\$20)**.

### Selected Travel Behavior Characteristics of the Elderly

This Informational Report summarizes data related to general trip-making characteristics of the elderly. The information presented has been obtained primarily from the 1990 Nationwide Personal Transportation Study. Prepared by ITE Technical Council Committee 6F-50, Michael C. Pietrzyk, chair. ITE, 1994.19 pp. *Publ. No. IR-075*; **\$15 (\$10)**.

### Selection and Use of Regional Transportation Microcomputer Planning Packages

This Informational Report discusses guidelines for the selection and use of regional transportation microcomputer planning packages concerned with travel demand forecasting. Prepared by ITE Technical Council Committee 6F-47, Dane Ismart, chair. ITE, 1994. *Publ. No. 1X-079*; **\$20 (\$15)**.

### Shared Parking

Examines multiple uses of parking lots and garages in 163 development projects of various types, both downtown and in the suburbs. Outlines a method for estimating the size of peak demands on shared parking areas in proposed developments and provides guidelines for optimal management and operation of parking areas. ULI, 1983.86 pp. *Publ. No. LP-086*; **\$57.95**.

### NEW Shared Parking Planning Guidelines

This report discusses guidelines for planning and regulating shared parking facilities. It includes the committee's mission and findings, a literature review, results of a questionnaire survey of 143 local governments in the United States and Canada, case studies on innovative cities and example development projects, and a model shared parking ordinance. ITE, 1995.53 pp. *Publ. No. IR-086*; **\$30 (\$25)**.

### Signal Timing Improvement Practices

An immediately useful document that includes information on software, resources, procedures, pedestrian intervals, and fine-tuning solutions. Describes comparative requirements and effectiveness of alternative techniques, presents the general principles for application, and discusses the related issues. NCHRP Synthesis 172. TRB, 1992. 88 pp. *Publ. No. LP-234*; **\$11**.

### Signing Policies, Procedures, Practices, and Fees for Logo and Tourist-Oriented Directional Signing

Describes the policies and procedures used by states to install and maintain signs that show the logos of nearby gas, food, lodging, and camping facilities, as well as other types of signs that direct motorists to tourist services and attractions. NCHRF Synthesis of Highway Practice 162. TRB, 1990.41 pp. *Publ. No. LP-184*; **\$8**.

### Single Point Urban Interchange Design and Operations Analysis

The single-point urban interchange (SPUI) combines two separate diamond ramp intersections into one large at-grade intersection that accommodates all interchanging vehicular movements and through traffic. Based on a survey of existing SPUIs, the report provides guidelines for planning, design, and application of SPUIs. NCHRF Report 345. TRB, 1992.101 pp. *Publ. No. LP-222*; **\$12**.

### Small Car Impacts on Highway Design, Safety, and Parking

A compendium of articles published by ITE, 1980-1984. Includes individual chapters on general impacts, impacts on highway design, impacts on safety, and impacts on design of parking facilities. An ITE Issue Paper. ITE, 1985. 95 pp., photocopy. *Publ. No. IP-006*; **\$5**.

### Specification for Retroreflective White and Yellow and Black Hot-Applied Thermoplastic Marking Materials

This specification covers a retroreflective pavement marking material of the type that is applied to the road surface in a molten state by either screed/extrusion, suspended extrusion, or spray means with a surface application of glass beads. An ITE Equipment Standard, by Technical Council Committee 7S-2A, chaired by Douglas E. Hefty. ITE, 1993.5 pp. *Publ. No. ST-029*; **\$15 (\$10)**.

### Spectrum Needs for Intelligent Vehicle-Highway System Application

Reports on the discussions and conclusions of a TRB workshop on IVHS spectrum needs. Includes related charts and glossary. Circular 428. TRB, 1994.46 pp. *Publ. No. LP-362*; **\$13**.

### Speed Zone Guidelines, A Proposed Recommended Practice

This report addresses what criteria should be used to establish the need and potential effectiveness of speed zones, and the appropriate speed limit if a speed zone is established. An ITE Proposed Recommended Practice, by Technical Council Committee 4M-25, chaired by William C. Taylor. ITE, 1993.5 pp. *Publ. No. RP-024*; **\$8 (\$5)**.

### NEW Standard Alphabets for Highway Signs and Pavement Markings-Metric

A metric edition reference guide for the standardization of letters and numerals used on highway signs. Reprinted in 1982. U.S. DOT, 1977. 56 pp. *Publ. No. LP-383*; **\$5**.



### **NEW Standard Alphabets for Highway Signs-English**

A reference guide for the standardization of letters and numerals used on highway signs. Reprinted in 1984. U.S. DOT, 1966.36 pp. *Publ. No. LP-382; \$5.*

### **Standard Practice for Use of the International System of Units (the Modernized Metric System)**

Guidance for application of The International System of Units (the modernized metric system) developed and maintained by the General Conference on Weights and Measures. Contains metric units and symbols, guidelines for the application of the metric system, rules for conversion and rounding, and hundreds of conversion factors. American Society for Testing and Materials, 1991. 35 pp. *Publ. No. LP-250; \$23.*

### **Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals**

Contains design criteria including loads, method of analysis, designs, and general design features. Updated 1994. AASHTO, 1994,84 pp. *Publ. No. LP-321; \$20.*

### **NEW Statewide Programs to Assess Impacts of Land Use Decisions on Transportation**

Describes programs and procedures of states to coordinate land use decisions with transportation planning. Includes congestion or growth management systems as they relate to land use decisions, as well as state requirements on local government to analyze the impacts of land use decisions on transportation systems. Of interest to federal, state and local officials, and transportation professionals. An ITE informational report by ITE Technical Committee 6A-57, Steven B. Colman, Chair. ITE, 1996.21 pp. *Publ. No. 1X-088; \$35 (\$25).*

### **Statistics with Application to Highway Traffic Analyses**

Presents the concepts of statistics for non-statisticians. Topics covered include summarizing data, probability and probability distributions, fundamentals of statistical inference, and some applications of statistical methods in highway traffic analyses. ENO, 1978,179 pp. *Publ. No. LP-352; \$10.*

### **NEW Status and Effectiveness of Urban Traffic Engineering Agencies**

Presents the current status, functions and structures of urban traffic agencies across the United States. Also reports on current and future needs for staffing and funding for these agencies. Contains recommendations on improving the effectiveness of urban traffic engineering agencies. The findings are the result of a 3-year effort by ITE, funded by the U.S. Federal Highway Administration. ITE/FHWA, 1995.46 pp. *Publ. No. 1X-082; \$25 (\$20).*

### **Strategic Plan for Intelligent Vehicle Highway Systems in the United States**

Guide for development and deployment of intelligent vehicle-highway systems in the United States. The plan includes: goals and objectives for a national IVHS program; challenges to deployment and ways to resolve them; suggested roles for public, private, and academic participants; a course of action; and cost estimates. IVHS America, 1992. 290 pp. *Publ. No. LP-239; \$50.*

### **Strategic Planning and Management Guidelines for Transportation Agencies**

Describes the concepts and status of strategic planning and management, particularly within publicly funded transportation agencies. Gives guidance on the application and implementation of strategic planning and management. TRB, 1992.48 pp. *Publ. No. LP-220; \$9.*

### **Streets for Everybody**

Intended as an aid for building, furnishing, and maintaining street areas in such a way that "everybody" can use them. It discusses street and pedestrian areas on private property, footpaths in parks, pavements, pedestrian crossings and parking areas. Produced by the Swedish Association of Local Authorities. Swedish Association of Local Authorities, 1993,45 pp. *Publ. No. LP-353; \$25.*

### **Stuck in Traffic-Coping With Peak-Hour Traffic Congestion**

This book addresses both the causes of rush hour congestion and possible ways to reduce it. Authored by Anthony Downs, this publication presents an analysis of the likely effects of adopting various anticongestion remedies. The Brookings Institution, 1992.210 pp. *Publ. No. LP-241; \$14.95.*

### **Student Chapter Manual**

This procedural manual for ITE student chapter advisors is intended to assist in the development and management of student chapter activities. Contains information, suggestions, and guidance for ITE student chapters, their officers, and their members. ITE, 1992.48 pp. *Publ. No. PP-011 A; Free.*

### **Suburban Gridlock**

Examines steps taken by municipalities to enlist support of private interests in both reducing employee trip-making and financing areawide roadway improvements. The analysis is national in scope, with detailed case studies that offer in-depth insights. Intended for planners, administrators, and citizens. By Robert Cervero. CUPR, 1986.271 pp., casebound. *Publ. No. LP-126; \$24.95.*

### **Summary of the Requirements for Engineering Registration**

A state-by-state review of the state requirements for engineering registration. National Society of Professional Engineers, 1988.24 pp., brochure. *Publ. No. LP-101; \$2.*

### **Supplemental Advance Warning Devices-A Synthesis of Highway Practice**

Describes the state of the art with respect to traffic devices used to provide motorists with advance warning of various roadway situations. Describes more than 340 such devices that have been applied and are in keeping with accepted traffic engineering principles, but are not currently included in the Manual on Uniform Traffic Control Devices. NCHRF Synthesis 186. TRB, 1993, 83 pp. *Publ. No. LP-300; \$19.*

### **Supporting Transportation Facilities with Limited Funds**

Reviews methods for innovative financing of transportation improvements through generation of revenues and more efficient uses of existing resources. Offers a brief description of each method presented, along with examples of its application and references for more detailed information. By Technical Council Committee 2-25, chaired by Jon D. Fricker. An ITE Informational Report. ITE, 1984.14 pp. *Publ. No. IR-032; \$10 (\$5).*



### Symposium on Integrated Traffic Management Systems

A diverse collection of issues were presented and discussed during the symposium. Material is included on planning, designing, and operating integrated traffic management systems, as well as the use of advanced technologies, funding, and institutional issues. Transportation Research Record 404. TRB, 1993. 126 pp. *Publ. No. LP-260; \$21.*

### Systems Management Optimization

Identifies analytic needs, as well as an alternative analysis framework, for incorporating transportation systems management into the long-range planning and implementation process. By Technical Council Committee 6Y-17, chaired by Bernard Adler. An ITE Informational Report. ITE, 1980/1985.80 pp. *Publ. No. IR-019; \$15 (\$10).*

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### Tax Issues for Exempt Organizations: A Primer

Can a tax-exempt organization receive business income without jeopardizing its tax-exempt status? The answer is "yes!" and this guide will explain the rules of how it can be done. By Jerald A. Jacobs and Paula Cozzi Goedert. Association Management magazine, 1990.8 pp. *Publ. No. OP-001; \$5.*

### NEW TDM-Staying Ahead of the Curve

Suitable for technical and non-technical audiences. This video explains TDM in terms of mobility choices and uses several case studies to demonstrate TDM techniques used by private organizations and public agencies. FHWA, 1995.14 min. VHS format. *Publ. No. VHS-020; \$25.*

### Technical Papers from ITE's 1990, 1989, and 1988 Conferences

A collection of papers presented at ITE's 1990 conference, "Meeting the Transportation Challenges of the 1990s: Land Development, Traffic Congestion, and Traffic Safety"; the 1989 conference, "Beyond Gridlock: Getting There from Here"; and the 1988 conference, "Traffic Congestion 88: Issues and Answers." The papers are divided by conference and are indexed by subject and by principal author. ITE, 1990.695 pp. *Publ. No. PP-027; \$50 (\$40).*

### NEW Technology Tools for Transportation Professionals-Moving into the 21st Century: Resource Papers for the 1995 ITE International Conference

This material is drawn primarily from written papers developed for the 1995 conference, supplemented with appropriate other information. Topics include status of the world's transportation technology; the future federal role in a changing political environment; institutional and community issues; advanced technologies; effectively using technology; traffic control systems; traffic signals; the Highway Capacity Manual; traffic safety and calming; data collection; natural disasters; planning models; geographic information systems; management systems; and transit and intermodal issues. ITE, 1995.596 pp. *Publ. No. PP-047; \$50 (\$35).*

### Through on Red at T-Intersections

Includes information on Indiana "Through on Red" law and its potential implications, input from the ITE Technical Council, related actions of the National Committee on Uniform Traffic Control Devices, FHWA positions, and Indiana repeal law. An ITE Issue Paper. ITE. 74 pp., photocopy. *Publ. No. 1P-002; \$5.*

### Through Traffic in Small Towns 1991 and The Urban Road Network Design 1991

The first of these two reports summarizes the experience of several countries in finding solutions to the problem of through traffic in small towns emphasizing safety and environmental aspects. The second report proposes six road categories for the future urban road network which will serve the motorized public, public transport, the cyclists and pedestrians. PIARC, 1991,84 pp. *Publ. No. LP-313; \$13.*

### Toolbox for Alleviating Traffic Congestion, A

Intended for elected officials, business and community leaders, representatives of the media, and others interested in learning more about what options are available for reducing traffic congestion, this report examines the causes behind the growing traffic congestion problem and describes specific actions that can be taken to improve the situation. ITE, 1989.154 pp. *Publ. No. IR-054A; \$35 (\$25).*

### Toolbox for Alleviating Traffic Congestion, A: Executive Summary

Provides an overview of the information included in the full report, A Toolbox for Alleviating Traffic Congestion. ITE, 1989.17 pp. *Publ. No. IR-054AX; \$5 (\$3).*

### Total Quality Project Management for the Design Firm

Ensuring quality doesn't have to be a costly proposition. A sensible, disciplined program of Total Quality Project Management can transform the machinery of any design project into an efficient, cost-effective and highly motivated professional team. This practical book describes real-life examples of how leading design firms have applied TQPM to an entire range of design project problems—from sales and administration to budgeting and more. Includes glossary, evaluation forms and more. By Frank A. Stasiowski and David Burstein. John Wiley and Sons Inc., 1994.405 pp. *Publ. No. LP-372; \$54.95.*

### Traffic Access and Impact Studies for Site Development

This report from ITE's Transportation Planners Council describes the key elements required for preparing and reviewing access and impact studies for new and expanding land developments. Useful to traffic/transportation engineers and planners, as well as public agency reviewers involved in the development approval process. An ITE Recommended Practice, by Task Force on Traffic Access/Impact Studies, chaired by Brian S. Bochner. ITE, 1991.52 pp. *Publ. No. RP-020B; \$40 (\$25).*

### Traffic Accident Investigation Manual, The

The definitive volume in the field of traffic accident investigation at the scene and in the technical follow-up stages. Includes step-by-step procedures for law enforcement officers, attorneys, trainers, and students. Other sections discuss lamp and tire examination, photogrammetry, and computer applications in vehicle damage analysis. By J. Stannard Baker and Lynn B. Fricke. 9th ed. Northwestern Univ. Traffic Inst., 1986.420 pp., casebound. *Publ. No. LP-214; \$55.*

To search by subject, rather than alphabetically, refer to the index by Subject that begins on page 33.



### Traffic Accident Reconstruction

Provides in-depth coverage of traffic accident reconstruction, the aim of which is to describe the events of the accident. The companion volume to the Traffic Accident Investigation Manual. Includes an extensive source list, glossary, and index. By Lynn B. Fricke et al. Northwestern Univ. Traffic Inst., 1990. 450 pp., casebound. *Publ. No. LP-167; \$75.*

### Traffic and Parking Control for Snow Emergencies

Serves as a guide to parking, traffic control, and enforcement measures that can be used to deal effectively with vehicular traffic constraints during snow and ice removal operations. An ITE Recommended Practice, by Technical Council Committee 4A-11, chaired by Richard T. Klatt. ITE, 1983. 5 pp. *Publ. No. RFOIZA; \$8 (\$5).*

### NEW Traffic Calming in Practice

Eighty-five illustrated case studies in urban, residential and rural locations provide an overview of the state-of-the-art of traffic calming in the United Kingdom. The case studies are supported by introductory chapters covering regulations and legislation, good practice in handling the sensitive and complex matter of consultation so vital to the success of local traffic schemes, and an evaluation of the case studies. Landor Publishing, 1994. 200 pp. *Publ. No. LP-384; \$45.*

### Traffic Congestion on Motorways and Dual Carriageway Roads 1991

The objective of this report is to pinpoint possible areas of convergence in the international experience in terms of both theoretical assessment and in monitoring and identifying possible solutions for traffic congestion. PIARC, 1991. 128 pp. *Publ. No. LP-312; \$18.*

### Traffic Congestion: What Does the Future Hold?

This videotape explains how traffic congestion diminishes quality of life and threatens the economic and social foundations of society. Shows some ways transportation engineers, public officials, citizen groups, enforcement officers and others can help reduce the impact of growth and improve traffic flow through supply management, demand management and productive partnership strategies. ITE, 1987. 17 minutes, VHS format. *Publ. No. VHS-006; \$25.*

### Traffic Considerations for Special Events

Concentrates on special events at stadiums, reviews existing facilities, presents design practices, and establishes general guidelines for planning and traffic operations of special event facilities. By Technical Council Committee 6A-5, chaired by Frederick J. Wegmann. An ITE Informational Report. ITE, 1976. 42 pp. *Publ. No. IR-014; \$10 (\$5).*

### Traffic Control Devices and Highway Visibility

Papers from the 1992 Annual Meeting of the Transportation Research Board concerned with traffic control devices, rail/highway grade crossing safety and research, and highway visibility. Transportation Research Record 1368. TRB, 1992. 73 pp. *Publ. No. LP-272; \$20.*

### Traffic Control Devices and the Color Blind

A compendium of information on color blind motorists and traffic control devices. An ITE Issue Paper. ITE, 122 pp., photocopy. *Publ. No. IP-004; \$5.*

### Traffic Control Devices, Visibility, and Traffic Signal Systems

Includes papers related to various left-turn signalization techniques, traffic signal systems, and traffic control devices and visibility. Transportation Research Record 1421. TRB, 1993. 112 pp. *Publ. No. LP-355; \$26.*

### Traffic Control for Construction and Maintenance Operations: A Training Program for Field Personnel

*Publ. No. 2000 series; \$300.*

### Traffic Control in Construction Work Areas

This computer-interactive training program on traffic control, in construction work areas is a simulated inspection of three work sites. A traffic control plan is available on-screen, allowing trainees to compare the planned traffic controls with actual conditions "on the ground." A complete set of paper-based materials is also included. (Requires a CD-I player and a standard television set.) AASHTO, 1993. *Publ. No. LP-332; \$125.*

### Traffic Control Methods

Proceedings of the Engineering Foundation Conference, February 26-March 3, 1989. Papers cover techniques and technology, developments in operating signal systems, integrated freeway-arterial

corridors, traffic simulation and optimization models, and route information and guidance systems. Engineering Foundation, 1990. 421 pp. *Publ. No. LP-212; \$5.*

### Traffic Control Systems Handbook

A compendium of traffic control systems technology. Reflects current state of the art and is focused toward the needs of the experienced user. Serves as a basic guideline to assist traffic engineers in planning, design, implementation, and operation of new and effective traffic control systems. Also serves as a training aid in the field of traffic control systems. ITE, 1985. 464 pp. *Publ. No. LP-123; \$30 (\$25).*

### Traffic Detector Field Manual

Presents the best current practices for installation and maintenance of three types of traffic detectors: the inductive loop detector, the magnetometer and the magnetic detector. Consolidates information that has been available to the engineering profession, and includes some innovative installation techniques for all three types of detectors. Intended for use by technicians and as a field manual. ITE, 1985. 142 pp., spiral-bound. *Publ. No. LP-125; \$20 (\$15).*

### Traffic Detector Handbook, 2nd ed.

This revised, updated handbook reflects the current state of the art, particularly as it relates to the microprocessor revolution, advances in control technology, and real-world application experience. The handbook serves as a single resource and basic reference to aid the practicing engineer and technician in planning, designing, installing, and maintaining traffic detectors. Best current practices are described, with emphasis on proper design, applications, and installation processes and techniques. ITE, 1991. 338 pages, casebound. *Publ. No. LP-224A; \$45 (\$40).*

### Traffic Detector Video Training Course, Vols. 1 and 2

This videotape presents a complete training course on traffic detectors with emphasis on loop detectors. Aimed at aiding the practicing engineer and technician in the understanding, planning, designing, installing, and maintaining traffic detectors. Based on the Traffic Detector Handbook, 2nd ed. (Pub. No. LP-124A). Includes an 80-page companion manual. FHWA, 1993. Running time: Vol. 1, 1 hr., 18 min.; Vol. 2, 9 min. *Publ. No. VHS-013; \$75 (\$50).*



### Traffic Devices: Historical Aspects Thereof

Traces the international development of all types of traffic control devices from 250 B.C. to 1970. An authoritative technical reference and an interesting report of the experiences and reasoning behind present-day traffic devices. By the Committee on Historic Traffic Devices. ITE, 1971.149 pp. *Publ. No. HB-001; \$20 (\$15).*

**Traffic Engineer as a Court Witness, The**  
Prepared for the Institute's professional development seminar of the same name, this videotape demonstrates how to qualify an expert witness and how to present both direct and cross-examination testimony. ITE, 1984.56 minutes; specify VHS or Beta format. *Publ. No. VHS-004; \$75.*

### Traffic Engineering

Addresses the design, operation, control and management of the nation's networks of highways and streets. This book will provide both students and practitioners with ample background in the characteristics of traffic demand, traffic flow, vehicles, drivers, roadways and pedestrians; and much more. By William R. McShane and Roger P. Roess. Prentice-Hall, 1990. 660 pp. *Publ. No. LP-166; \$86.*

### Traffic Engineering for Neo-Traditional Neighborhood Design

Basic concepts of neo-traditional neighborhood projects and how these design concepts differ from those of conventional projects. Specific topics of partial conflict with conventional traffic engineering practice are identified and discussed. By Technical Council Committee 5P-8, chaired by Frank Spielberg. An Informational Report. ITE, 1994.18 pp. *Publ. No. IR-071; \$30 (\$15).*

### Traffic Engineering for Neo-Traditional Neighborhoods (Seminar Notebook)

ITE, 1992. *Publ. No. PD-020; \$75 (\$50).*

### Traffic Engineering Handbook, 4th ed.

Provides professional engineers with a basic day-to-day source of reference on the principles and proven techniques in the practice of traffic engineering. The material presented is not intended to serve as a statement of standards, but rather as guidelines for the practicing professional engineer. Edited by James L. Pline. ITE/Prentice-Hall, 1991.481 pp., casebound. *Publ. No. TB-010; \$82.*

### Traffic Engineering Practices in Developing Countries

Reports on traffic engineering practices in 19 cities in developing countries, including data collection procedures, traffic engineering standards and analyses, traffic control methods, and analysis of the characteristics of special travel generators. By Technical Council Committee 4A-20, chaired by K. Mammen Daniel. An ITE Informational Report. ITE, 1984.12 pp. *Publ. No. IR-033; \$10 (\$5).*

### Traffic Flow and Highway Capacity

Focuses on highway capacity, quality of service, traffic flow measurement, and traffic flow theory. The papers cover a wide range of problems reflecting the concerns of both practitioners and theoreticians. Transportation Research Record 1398. TRB, 1993.135 pp. *Publ. No. LP-304; \$28.*

### Traffic Flow, Capacity, Roadway Lighting, and Urban Traffic Systems 1990

Reports on traffic flow, capacity, roadway lighting, and urban traffic systems. Transportation Research Record 1287. TRB, 1990.251 pp. *Publ. No. LP-207; \$40.*

### Traffic Flow Fundamentals

Designed for a one-semester first-year graduate course in traffic flow fundamentals, and as a ready reference for professionals and researchers because of its in-depth comprehensive coverage of research results and applications. Covers microscopic and macroscopic flow, speed, and density characteristics; and much more. By Adolf D. May. Prentice-Hall, 1990.464 pp., casebound. *Publ. No. LP-259; \$85.*

### Traffic Improvements-Legal Aspects and Liability

Provides basic principles and background, case abstracts, guidelines to reduce risk, expert witness and trial procedures, and a glossary of legal terms. For state and local traffic engineers, public works and police department personnel, attorneys, and elected officials. By Sheldon I. Pivnik, Jack B. Humphreys, and David C. Oliver. An ITE Educational Foundation publication, 2nd ed. ITE, 1980.123 pp., bound. *Publ. No. PD-002; \$30 (\$25).*

*To search by subject, rather than alphabetically, refer to the Index by Subject that begins on page 33.*

### Traffic Information Program Series

Consists of simple and logical descriptions of the most effective uses of seven traffic control devices: bike lanes, children-at-play signs, crosswalks, speed humps, speed limits, stop signs and traffic signals. Traffic engineers are encouraged to use this material in communications with the public. By ITE Southern California Section Committee on Public Relations, chaired by Robert F. Alderman. An ITE Informational Report. ITE, 1978.12 pp. *Publ. No. 1X-018; \$10 (\$5).*

### Traffic Management

Proceedings of the sixth Engineering Foundation Conference on Issues and Techniques in Traffic Management in April, 1991. United Engineering Trustees Inc., 1992.326 pp. *Pub. No. LP-344; \$5.*

### Traffic Management and Safety at Highway Work Zones

A compendium of recent research and practical expertise on traffic operations and safety management at road work zones, providing a basis for future national highway maintenance programs and policies. Prepared by an OECD Scientific Expert Group. OECD, 1989.145 pp. *Publ. No. LP-156; \$30.*

### Traffic Monitoring and Control Systems

Presents proceedings of 1983 Engineering Foundation Conference, Henniker, NH. Discusses traffic control for small-to medium-sized communities; integrated networks; hardware and software for traffic monitoring and control; and system implementation, operation, and maintenance. Sam Yagar, editor. Engineering Foundation, 1985.213 pp. *Publ. No. LP-103; \$5.*

### Traffic Operations

Focus on traffic operations. Readers with a specific interest in transportation systems management will find papers about traffic management during a bridge reconstruction project, prioritization and cost effectiveness analysis of signalized intersection improvements, and effectiveness of improving arterials as freeway reliever routes. Transportation Research Record 1360. TRB, 1992.157 pp. *Publ. No. LP-274; \$28.*



### Traffic Operations Planning for Stadia and Arenas

This report addresses transportation planning for sports and multipurpose arenas. Based on a survey of 23 existing facilities, the report discusses planning and design parameters, parking requirements, and traffic operations for stadia and arenas. By Technical Council Committee 6A-50, chaired by Joseph W. Guyton. An Informational Report. ITE, 1994, 34 pp. *Publ. No. 1X-069; \$20 (\$15).*

### Traffic Safety Toolbox, The: A Primer on Traffic Safety

A compilation of traffic safety information on a variety of subjects providing ideas and concepts for effective traffic safety improvements. The information represents the personal knowledge, experience and expertise of the chapter author in suggesting ways that traffic safety may be improved. This combination of resources should make this publication a valuable document, useful toward improving traffic safety and saving lives. ITE, 1993, 257 pp. *Publ. No. LP-279; \$45 (\$35).*

### Traffic Signal Installation and Maintenance Manual

The first manual on traffic signal installation and maintenance to address both technical and administrative issues. The manual emphasizes the incorporation of low-maintenance design features and procedures in the signal design and installation process and includes a discussion of the importance of risk management. By J. H. Giblin, W. H. Kraft, J. Rudden, and R. Sands. ITE/Prentice-Hall, 1989. 256 pp., casebound. *Publ. No. TB-009; \$72.*

### Traffic Signal Systems: Go for the Green

This FHWA videotape demonstrates need for proper traffic signalization and highlights best current practices. In two parts: the first, for public works officials, chief executives, citizen groups, and other decision makers about basics of good traffic control signalization and benefits of its implementation in urban areas. The second more technical part is for traffic engineers and technically oriented city and county decision makers. USDOT FHWA. 28 minutes; specify Beta or VHS format. *Publ. No. VHS-005; \$25.*

### Training Resources Catalog: For Rural and Specialized Transit Systems

Revised and updated, the new catalog contains more than 200 programs and resources, cross-indexed by topic and key word. Chapters are separated into "Training Resources" and "Training Programs." Sold without binder. USDOT, 1994. 292 pp. *Publ. No. LP-366; \$10.*

### Transient Protection, Grounding, and Shielding of Electronic Traffic Control Equipment

Provides procedures, practices, test methods, and specifications for the protection from electrical noise and transients of not only traffic control equipment, but also other types of equipment operated by transportation agencies. NCHRP Report 317. TRB, 1989. 84 pp. *Publ. No. LP-157; \$11.*

### Transit, Commuter, and Freight Usage of Rail Rights of Way

Provides an overview of shared use of urban rail track and right-of-way by transit passenger and freight service. Includes inventory of existing shared usage in the United States and specific case studies of individual projects and metropolitan areas. By Technical Council Committee 6A-28, chaired by Peter A. Fausch. An ITE Informational Report. ITE, 1984. 16 pp. *Publ. No. 1X-030; \$10 (\$5).*

### Transit Energy Strategy Planning: Service Supply Adjustments

Focuses on development, implementation, and effectiveness of transit vehicle-supply strategies in energy conservation programs for fixed-route bus systems. Discusses physical expansion and short-term operational strategies. By Technical Council Committee 6Y-25, chaired by Edward J. Kannel. An ITE Informational Report. ITE, 1984. 11 pp. *Publ. No. IR-027; \$10 (\$5).*

### Transit Station Access

Presents design concerns and guidelines for the construction of rapid transit station access for all modes. By Technical Council Committee 5C-6, chaired by Melvin J. Kahn. An ITE Informational Report. ITE, 1980. 19 pp. *Publ. No. IR-021; \$20 (\$15).*

### Transport (single disk)

Provides the bibliographic records of the three leading transportation research organizations: IRRD, The Road Transport Research Programme of the Organization for Economic Co-operation and Development (OECD); TRIS, the Transportation Research Board, and TRANS DOC, the European Conference of Ministers of Transport (ECMT). Covers 1988 to present, with quarterly updates. Available on CD-ROM in DOS, Macintosh and Windows platforms, with the Windows version soon to be available in French, German and Spanish language interfaces. For those transportation professionals who work in an academic library, an engineering or consulting firm, a planning organization or a research institute. SilverPlatter, 1994. 1 disk. *Publ. No. LP-369; \$1,295.*

### Transport (2-disk set)

Provides the bibliographic records of the three leading transportation research organizations: IRRD, The Road Transport Research Programme of the Organization for Economic Co-operation and Development (OECD); TRIS, the Transportation Research Board, and TRANS DOC, the European Conference of Ministers of Transport (ECMT). Covers 1968 to present, with quarterly updates. Available on CD-ROM in DOS, Macintosh and Windows platforms, with the Windows version soon to be available in French, German and Spanish language interfaces. For those transportation professionals who work in an academic library, an engineering or consulting firm, a planning organization or a research institute. SilverPlatter, 1994. 2 disks. *Publ. No. LP-370; \$1,795.*

### Transport for Disabled People

Problems of access to transport affect a large and growing number of people. This report examines the information available to and needed by elderly or disabled people before and during a journey. It also treats the problems of access to pedestrian zones for people with mobility handicaps. Practice and legislation in many countries are described. ECMT, 1990. 115 pp. *Publ. No. LP-187; \$17.*

*To place an order, complete and return the order form on back cover to: Institute of Transportation Engineers, 525 School Street, S. W., Suite 414 Washington, DC 20024-2797 USA. Orders can also be placed by Fax (202/863-5486) or telephone (202/554-8050).*





### Transportation and Economic Development 1990

Proceedings of an international conference on transportation and economic development that was held in Williamsburg, Va., in November 1989. The conference examined the interrelationships between investments in all modes of transportation and economic development. Transportation Research Record 1274. TRB, 1990.290 pp. *Publ. No. LP-206; \$40.*

### Transportation and Traffic Engineering Handbook

An authoritative reference text to assist transportation and traffic professionals in planning, design, and operation of surface transportation facilities. Includes 28 chapters by noted international experts. Wolfgang S. Homburger, editor; Louis E. Keefer and William R. McGrath, associate editors. 2nd ed. ITE/Prentice-Hall Inc., 1982. 883 pp., casebound. *Publ. No. TB-001A; \$96.*

### Transportation Continuing Education and Professional Development

This report examines the feasibility of ITE serving as a clearinghouse for the dissemination of information on transportation continuing education and professional development courses. By Technical Council Committee 2-40, chaired by J. Edwin Clark. An Informational Report. ITE, 1993.5 pp. *Publ. No. IR-066; \$5 (\$3).*

### Transportation Data and Information Systems: Current Applications and Needs 1990

Papers presented at a mid-year meeting of the TRB Committee on Transportation Data and Information Systems, held in Washington, D.C., in October 1989, with additional papers on this subject. Transportation Research Record 1271. TRB, 1990.88 pp. *Publ. No. LP-203; \$16.*

### Transportation Demand Management

Includes papers from TDM-Related sessions presented at the 1992 TRB Annual Meeting and covering topics such as experience with, and the effectiveness of, alternative TDM measures; impacts of road and parking pricing on travel behavior; and the role of transportation management associations. TRB, 1992.73 pp. *Publ. No. LP-244; \$20.*

### Transportation Energy Contingency Planning

Provides an overview of activities and accomplishments in transportation energy contingency planning. Ascertains degree to which usable TEC plans have been developed by state and local agencies and what elements make a plan usable. Includes a guide to specific components of a good TEC plan. By Technical Council Committee 6P27, chaired by Jon D. Fricker. An ITE Informational Report. ITE, 1986.24 pp. *Publ. No. IR-046; \$20 (\$15).*

### Transportation Engineer as a Court Witness, The

Assists transportation engineers in accomplishing legal and court activities, including researching background information, making field investigations, preparing written depositions, presenting oral depositions, assisting lawyers in preparing cases and in preparing for examination and cross-examination of witnesses, and serving as an ordinary witness and as an expert witness. By Jack B. Humphreys. An ITE Educational Foundation publication. ITE, 1984. Spiralbound. *Publ. No. PD-006; \$75 (\$50).*

### Transportation Engineering in a New Era

Contains issues papers for ITE's 1992 international conference, "Transportation Engineering in a New Era." The papers address what has been done, what is being done, and what the future holds for transportation in the new era. ITE, 1992. 223 pp. *Publ. No. PP-029; \$40 (\$35).*

### Transportation Glossary

This glossary of transportation terms has been prepared as an aid to understanding transportation terminology. The guide is arranged in five modal sections: aviation, highways, public transportation, railways, and water transportation; it covers more than 1,500 terms. American Association of State Highway and Transportation Officials, 1983. 105 pp. *Publ. No. LP-066; \$16.*

### Transportation in the ISTEA Era: Issue Papers for the ITE 1993 International Conference, Orlando, Florida

Issue papers of the ITE conference "Transportation in the ISTEA Era," held in March 1993. Addresses those aspects of ISTEA that are of critical importance to transportation professionals, including improving mobility, managing transportation demand, and other critical issues. Summaries of the requirements of

the ISTEA and the Clean Air Act Amendments of 1990 are also included. ITE, 1993.225 pp. *Publ. No. PP-033; \$50 (\$40).*

### Transportation Management through Partnerships

Examines partnerships between public and private groups working together to reduce the traffic impacts of development and to improve the quality of transportation services in their areas. By Robert Dunphy and Ben Lin. ULI, 1990.224 pp. *Publ. No. LP-182; \$45.95.*

### Transportation Planning Handbook

A companion publication to ITE's Traffic Engineering Handbook, but is also a handy standalone reference for the transportation professional involved in the broader issues of traffic engineering and transportation planning. Written for both engineering and planning disciplines. ITE, 1992.513 pp. *Publ. No. TB-011; \$86.*

### Transportation Planning, Programming, and Finance

The Transportation Planning, Programming, and Finance conference was the third major TRB conference of 1992 that had a focus on some aspect of the changing planning and institutional characteristics of transportation decision making in the 1990s. Transportation Research Record 406. TRB, 1993. 77 pp. *Publ. No. LP-254; \$18.*

### Transportation Planning, Programming, Land Use, and Applications of Geographic Information Systems

Five areas are discussed: applications of highway performance monitoring systems (HPMSs); metropolitan transportation planning and systems planning applications; application of geographic information systems (GISs); and weigh-in-motion systems. Transportation Research Record 1364. TRB, 1992. 201 pp. *Publ. No. LP-267; \$35.*

### Transportation Profession and the Media, The

Provides information on dealing with the media on public relations matters. An ITE Educational Foundation publication, developed as a reference for a one-day seminar. ITE, 1984. 213 pp., perfect-bound. *Publ. No. PD-008; \$35 (\$25).*



**Transportation Professionals: Future Needs and Opportunities**  
Reports on a study of the transportation professional needs of highway & mass transit agencies in state, local, and federal government. Special Report 207. TRB, 1985.299 pp. *Publ. No. LP-204*; **\$18**.

**Transportation System Management, Parking, and Travel Demand Management**

Contains papers presented at the 1993 TRB Annual Meeting on the following topics: transportation systems management, parking, and transportation demand management. Transportation Research Record 1404. TRB, 1993.100 pp. *Publ. No. LP-342*; **\$25**.

**Transportation Systems Planning and Applications 1990**

A compendium of 17 papers on transportation systems planning and applications. Transportation Research Record 1283. TRB, 1990. 188 pp. *Publ. No. LP-209*; **\$31**.

**Transportation Telecommunications**

This report will be of interest to administrators, operating personnel, and others interested in the management and operation of telecommunications systems in transportation agencies. This report describes systems that are in use by transportation agencies or that are available for use. NCHRP Synthesis 165. TRB, 1990.92 pp. *Publ. No. LP-202*; **\$10**.

**Travel Characteristics at Large-Scale Suburban Activity Centers**

The research findings of this report will be of special interest and use to transportation planners and engineers responsible for analyzing and evaluating the traffic impacts of large-scale multiuse suburban activity centers. NCHRP Report 323. TRB, 1989.106 pp. *Publ. No. LP-162*; **\$11**.

**Travel Demand Forecasting: New Methodologies and Travel Behavior Research 1991**

Provides timely information on research and applications in forecasting travel demand. Transportation Research Record 1328. TRB, 1991.103 pp. *Publ. No. LP-233*; **\$22**.

**Travel Demand Forecasting Processes used by Ten Large Metropolitan Areas**

This Informational Report discusses the travel demand forecasting processes used by several large Metropolitan Planning

Organizations. Topics covered include zones and networks, trip purposes, trip generation, gravity models, modal split, and traffic assignments. By Technical Council Committee 6Y-53, chaired by William W. Mann, P.E. An Informational Report. ITE, 1993.102 pp. *Publ. No. IX-070*; **\$15 (\$10)**.

**Travel Demand Forecasting, Travel Behavior, and Telecommunications**

Papers on travel demand forecasting, travel behavior, and mode choice analysis. Transportation Research Record 1357. TRB, 1992. 89 pp. *Publ. No. LP-275*; **\$21**.

**Travel Demands in the 1990s**

A look at demographic changes that will affect highway transportation in this decade. The author makes a convincing case that those who use or manage transportation systems must be alert to demographic and social changes in order to deal effectively with transportation needs before they become major problems. By Alan E. Pisarski. HUFSA, 1990.16 pp. *Publ. No. LP-199*; **\$5**.

**Trip Generation, 5th ed.**

The fifth edition of this best-selling reference contains data from nearly 3,000 studies and provides updated information on multi-use projects and pass-by trips. Includes data for many new land uses, including convenience stores with gasoline pumps, service stations with convenience stores, discount supermarkets, auto care centers, and single-tenant office buildings. By ITE Technical Committee 6A-32, chaired by Carl H. Buttke. ITE, 1991.1600 pp. *Publ. No. IX-016C*; **\$150 (\$130)**.

**Trip Generation, February, 1995, 5th Edition Update**

This update includes revised information on the following land uses: Day care center (565); free-standing discount superstore (813) (new land use); free-standing discount store (815); quality restaurant (831); high-turnover (sit-down) restaurant (832); fast food restaurant without drive-through window (833); fast food restaurant with drive-through window (834); gasoline/service station (844); gasoline/service station

with convenience market (845); gasoline/service station with convenience market and car wash (846); convenience market with gasoline pumps (853); discount club (861). ITE, 1995.256 pp. *Publ. No. IR-080*; **\$50 (\$35)**.

**Truck Escape Ramps**

After evaluating the design and operation of many truck ramps throughout the United States, Technical Council Committee 5B-1 prepared this report, which includes a set of guidelines to be considered in the development and operation of truck escape ramps. An ITE Recommended Practice. ITE, 1989.17 pp. *Publ. No. RF021*; **\$25 (\$15)**.

**Truck Escape Ramps**

Of interest to highway design engineers, maintenance personnel, safety and enforcement officials, traffic engineers, and others responsible for the safe operation of large trucks on highways. Information is provided on the critical aspects of site location, design criteria, and maintenance procedures. Transportation Research Record 178. TRB, 1992.56 pp. *Publ. No. LP-265*; **\$9**.

**Truck Weight Limits: Issues and Options**

Recommendations of a TRB committee that analyzed the effects of a number of specific proposals for changes to existing federal weight limits and regulations. Special Report 225. TRB, 1990.307 pp. *Publ. No. LP-175*; **\$25**.

**Trucking Issues 1990**

Focuses on how best to provide access for certain types of trucks based on their size and weight characteristics and discusses the impact of trucks on traffic congestion and safety. Transportation Research Record 1256. TRB, 1990.54 pp. *Publ. No. LP-191*; **\$12**.

**Turning Vehicle Templates-English System**

These templates will help you develop and evaluate geometric design alternatives, as well as prepare plans to accommodate AASHTO basic design vehicles. Includes 43 templates for the following design vehicles: extra-large semi-trailer truck (WB-60), large semi-trailer (WB-50), small semi-trailer (WB-40), bus (B-40), and single-unit truck (SU-30) at the scales of 1"=20', 1"=40', and 1"=50'; and passenger cars (P and Pm) at the scale 1"=20'.

Printed on heavy-ply transparent mylar and packaged in a convenient-to-use five-ring binder. Includes instruction manual. Jack E. Leisch & Associates, 1987. Looseleaf. *Publ. No. LP-023A*; **\$550.**

### Turning Vehicle Templates-Metric System, Revised 1993

These templates will help you develop and evaluate geometric design alternatives, as well as prepare plans to accommodate AASHTO basic design vehicles. Includes 34 templates for the following design vehicles: extra-large semitrailer truck (WB-18), large semitrailer (WB-15), small semitrailer (WB-12), bus (B-12), and single-unit truck (SU-9) at the scales of 1:250 and 1:500; and passenger cars (P and Pm) at the scale 1:250. Printed on heavy-ply, transparent mylar and packaged in a convenient-to-use five-ring binder. Includes instruction manual. ITE, 1993. *Publ. No. LP-022A*; **\$425.**

### Twin Trailer Trucks

Examines potential impacts of twin trailer trucks on highway safety, trucking industry productivity, traffic operations, pavement wear, and bridge loadings. Includes historical and regulatory background; use characteristics and cost impacts; safety impacts; highway condition, operations, and design impacts; and long-term monitoring. Special Report 211. TRB, 1986.388 pp. *Publ. No. LP-121*; **\$25.**



### U.S. Chamber of Commerce Association Bylaws

This reference guide is designed for organization leaders, association executives, or legal counsels who are interested in drafting, reviewing or updating their association's bylaws. U.S. Chamber of Commerce, 1991.27 pp. *Publ. No. OP-004*; **\$8.50.**

### Uniform Vehicle Code and Model Traffic Ordinance, 1992

The recognized U.S. standard for states and municipalities to follow in establishing and maintaining sound, uniform traffic laws and regulations. Content is specifically tailored for use at state and local levels, is coordinated and consistent with recommended principles, and is comprehensive in the coverage of

necessary legislation. Updated in 1992. National Committee on Uniform Traffic Laws and Ordinances, 1992.174 pp. *Publ. No. LP-OOGA*; **\$22.**

### United States Transportation Energy Supply and Demand

Assesses energy supply and demand in the United States to the year 2000. Evaluates practical energy-conservation tools for transportation engineers. By Technical Council Committee 6F-25, chaired by James W. Causey. An ITE Informational Report. ITE, 1985.15 pp. *Publ. No. 1X-047*; **\$15 (\$10).**

### Urban Freeway Operations

An exploration of techniques for managing urban expressways so that they may be used more efficiently. Methods covered range from more effective physical facilities and management procedures to improved public relations practices. Transportation Research Record 1173. TRB, 1988.45 pp. *Publ. No. LP-151*; **\$7.50.**

### Urban Goods Movement: A Guide to Policy and Planning

This comprehensive book brings much of the knowledge and experience in urban goods movement together into a single source of information on urban freight, particularly from a public policy or planning viewpoint. Provides a conceptual basis for urban goods movement analysis and detailed, practical guidelines for urban freight policy and planning. By Ken Ogden. Ashgate, 1992.397 pp., hardcover. *Publ. No. LP-228*; **\$74.95.**

### Urban Public Transportation Glossary

Intended to improve communication within and among all disciplines in urban transportation, the entries in this publication provide systems operators with an understanding of the analytical language of urban transportation planners, and planners with knowledge of transit operations terms. TRB, 1989. 74 pp. *Publ. No. LP-143*; **\$14.**

### Urban Traffic Congestion: What Does the Future Hold?

This compilation of three previously published reports focuses on factors and trends affecting urban traffic congestion. ITE, 1986.94 pp. *Publ. No. IR-040*; **\$7 (\$3).**

### NEW Urban Traffic Engineering Education and Training Needs

Contains findings and recommendations on education and training for the urban traffic engineering community. Current educational and training requirements for urban traffic engineering agency staff are presented, as well as areas where additional education is needed, effectiveness of training methods, obstacles that agencies face in obtaining needed training, and a recommended core curriculum for traffic engineers. The findings are the result of a 3-year effort by ITE, funded by the U.S. Federal Highway Administration. ITE/FHWA, 1995.56 pp. *Publ. No. IX-084*; **\$30 (\$25).**

### NEW Urban Traffic Engineering Issues and Answers Executive Summary

A summary of the findings of a three-year study by ITE and FHWA on three aspects of the traffic engineering community: status and effectiveness, operations and maintenance, and education and training. These aspects are discussed in detail in reports available from ITE. ITE/FHWA, 1995.4 pp. *Publ. No. IX-085*; **\$10 (\$5).**

### Urban Travel Characteristics Database

This Informational Report provides unedited and noncompiled primary data on travel characteristics from twenty U.S. urban areas. Such travel characteristics include trip generation, trip lengths, time of day of travel, vehicle occupancy, and modal utilization. Prepared by ITE Technical Council Committee 6Y-46, Richard Marshment, chair. Photocopied. ITE, 1995. *Publ. No. 1X-078*; **\$35 (\$25).**

### Use of Census Data in Transportation Planning

Describes model-related uses of the 1980 Census data, including development of input for application of models and model calibration and development. Three major non-model uses of data are described: establishment of a database, data summary and reporting, and travel-related analysis. By ITE Technical Council Committee 6Y-30, chaired by Arthur B. Sossau. An ITE Informational Report. ITE, 1986. 14 pp. *Publ. No. IX-01 1 B*; **\$15 (\$10).**

# U

## Use of Roundabouts

A summary of the current practice related to the use of roundabouts for distributing conflicting traffic movements at junctions. By Technical Council Committee 5B-17, chaired by Sam Yagar, P.Eng. An Informational Report. ITE, 1992. 58 pp. *Publ. No. 1X-056; \$25 (\$20).*

## Use of Rumble Strips to Enhance Safety

Describes the state of the practice with respect to placement, operational and safety effects, design, installation, and cost and service life of rumble strips. Discusses effectiveness as well as potential adverse effects. NCHRP Synthesis 191. TRB, 1993, 74 pp. *Publ. No. LP-303; \$19.*

# V

## Vehicle Routina, Traveler ADIS, Network Modelng, and Advanced Control Systems

Areas of interest include transportation network analysis, the relation of street network geometries and control features to quality of traffic service, transit network structure for information service of direct and connecting trips, and real-time network traffic simulation. Transportation Research Record 1358. TRB, 1992. 102 pp. *Publ. No. LP-276; \$22.*

## Visibility Criteria for Signs, Signals, and Roadway Lighting

The papers included in this report were originally presented at the Symposium on Visibility Criteria for Signs, Signals, and Roadway Lighting, which was held in Minneapolis, Minnesota, in August 1988. Emerging philosophies on visibility models are also included. Transportation Research Record 1247. TRB, 1989. 101 pp. *Publ. No. LP-278; \$15.50.*

## Visibility for Roadways, Airways, and Seaways 1991

Presents recent results and information from ongoing research and development on a variety of lighting and visibility topics. Includes research findings related to minimum standards for retroreflectivity of traffic signs and pavement markings. Transportation Research Record 1316. TRB, 1992. 72 pp. *Publ. No. LP-226; \$20.*

# W

## Ways of the World: A History of the World's Roads and of the Vehicles That Used Them

This is the first comprehensive history of the world's roads, highways, and bridges, and of the people and vehicles that traversed them, from prehistoric times to the present. Lay, M.G. (Maxwell G.), Rutgers University Press, 1992. 401 pp. *Publ. No. LP-269; \$50.*

## Will IVHS Transform Transportation System Effectiveness?

This publication contains the proceedings of the workshop "Will IVHS Transform Transportation System Effectiveness?" held in San Diego, Calif., Dec. 1-3, 1992. The objective of the workshop was to develop guidelines for estimating the impacts/benefits of IVHS on transportation. IVHSA, 1993, 184 pp. *Publ. No. LP-292; \$30.*



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Vehicle Facilities, The  
*Publ. No.: 1X-050; Price: \$25 (\$20)*

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Guide for the Design of High  
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Issues in Land Use and  
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More for Less with HOV-The  
Benefits of High-Occupancy  
Vehicle Projects  
*Publ. No.: LP-251; Price: \$20 (\$15)*

Preferential Lane Treatments for  
High-Occupancy Vehicles  
*Publ. No.: LP-281; Price: \$10*

### Highway Capacity

1985 Highway Capacity Manual,  
The: An Executive Overview  
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Capacity Analysis Techniques for  
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Effect of the Quality of Traffic Signal Progression on Delay  
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Freeway Operations, Highway Capacity, and Traffic Flow 1991  
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Highway Capacity and Traffic Flow  
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ITE Elected Leadership Manual  
*Publ. No.: OP-006; Price: \$10 (\$5)*

ITE Publication Index-MS-DOS Version  
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ITS in Europe '9' ITE ITS European Tour Report  
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ITS in North America: A Report Prepared by Participants of the ITS in America '94 Study Tour  
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Communicating With Vehicles: IVHS Research and Operational Test Requirements  
*Publ. No.: LP-291; Price: \$11*

Compendium of Articles on Intelligent Vehicle Highway Systems, A  
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ETTM Primer for Transportation and Toll Officials, An  
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In-Vehicle Information Systems: Modeling Traffic Networks and Behavioral Considerations 1991  
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Traffic Improvements-Legal Aspects and Liability  
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Dimensions of Parking, 3rd ed.  
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Toolbox for Alleviating Traffic Congestion, A: Executive Summary  
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Traffic Congestion on Motorways and Dual Carriageway Roads 1991  
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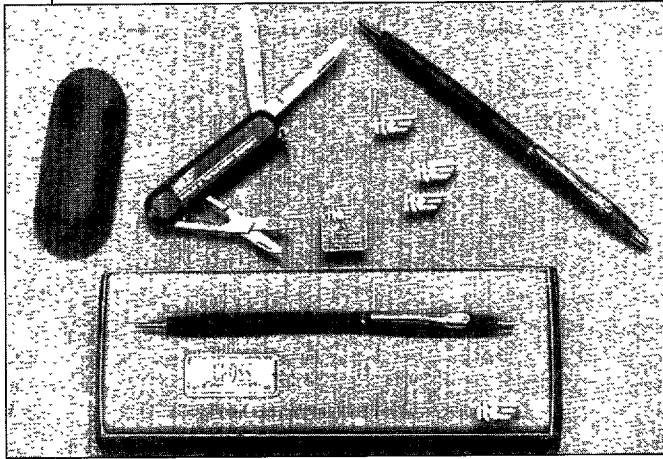
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