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PELT91 - PRESTON SCHMITT

This Policy Focus Report was a product of the Lincoln Institute of Land Policy, the Regional Plan Association and their joint venture America 2050. The Lincoln Institute of Land Policy has been engaged in a series of projects with the Regional Plan Association for more than a decade. The partnership spawned the national initiative known as America 2050, which is aimed at meeting the infrastructure, economic development and environmental challenges of the nation, in preparation for a population increase of about 130 million by 2050. A major focus of America 2050 is the emergence of megaregions - large networks of metropolitan areas, where most of the population growth by mid-century will take place. Examples of megaregions are the Northeast Megaregion, from Boston to Washington, or Southern California, from Los Angeles to Tijuana, Mexico. High-speed rail is capable of linking employment centers and population hubs in corridors up to 600 miles in length in 11 U.S. megare-

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A multi-disciplinary approach to transpor-

tation planning fundamentals The Transportation Planning Handbook is a comprehensive, practice-oriented reference that presents the fundamental concepts of transportation planning alongside proven techniques. This new fourth edition is more strongly focused on serving the needs of all users, the role of safety in the planning process, and transportation planning in the context of societal concerns, including the development of more sustainable transportation solutions. The content structure has been redesigned with a new format that promotes a more functionally driven multimodal approach to planning, design, and implementation, including guidance toward the latest tools and technology. The material has been updated to reflect the latest changes to major transportation resources such as the HCM, MUTCD, HSM, and more, including the most current ADA accessibility regulations. Transportation planning has historically followed the rational planning model of defining objectives, identifying problems, generating and evaluating alternatives, and developing plans. Planners are increasingly expected to adopt a more multidisciplinary approach, especially in light of the rising importance of sustainability and environmental concerns. This book presents the fundamentals of transportation planning in a multidisciplinary context, giving readers a practical reference for day-to-day answers. Serve the needs of all users Incorporate safety into the planning process Examine the latest transportation planning software packages Get up to date on the latest standards, recommendations, and codes Developed by The Institute of Transportation Engineers, this book is the culmination of over seventy years of transportation planning solutions, fully updated to reflect the needs of a changing society.

For a comprehensive guide with practical answers, The Transportation Planning Handbook is an essential reference.

"A gem from one of the most brilliant minds in personal finance." — Ben Stein, author, actor, TV personality, and New York Times columnist In a financial world gone mad, you still need to manage your money, put your kids through college, and save for retirement. To the rescue comes Jonathan Clements with 21 easy-to-follow rules to help you secure your financial future. Clements has spent a quarter century demystifying Wall Street for ordinary, real people on Main Street, including more than thirteen years as the Wall Street Journal's hugely popular personal-finance columnist. In *The Little Book of Main Street Money*, Clements brings us back to basics, with commonsense suggestions for intelligent money management. Chock-full of financial guidance that will stand up in any market, the book also reflects a financial philosophy that Clements has developed over a lifetime of watching Wall Street and writing about money—and that is even more important in the current volatile market. From the big picture (home, retirement, financial happiness) to the micro (taxes, inflation, investment costs), he offers clear-cut advice for taking control of your financial life, detailing the strategies needed to thrive in today's tough economic times. The 21 truths outlined throughout this book are a guiding light for everyone, young and old, whether starting out or soon retiring. Each chapter reads like a Clements column—clear, pithy, and feisty. From the obvious to the counterintuitive, the truths will bolster your returns, cut your costs, and give you financial peace of mind. Collectively, the 21 truths show you how to think about your entire financial life—not just stocks and bonds, but

your home, your debts, your financial promises to your children, your income-earning ability, and so much more. They will help you not only survive today's treacherous financial terrain, but also prepare you for success tomorrow. Renowned for his spirited writing and shrewd investment guidance, Clements is the sane voice investors need to stay grounded in the midst of so much financial insanity.

This report contains proposed specifications for the design and construction of soil-nailed retaining structures. Despite their advantages in cut applications, these structures are not available to some state DOTs, due to the lack of guidance for their use in AASHTO's standard specifications based on load and resistance factor design (LRFD).

This guide replaces the 1984 publication entitled *An Informational Guide for Roadway Lighting*. It has been revised and brought up to date to reflect current practices in roadway lighting. The guide provides a general overview of lighting systems from the point of view of the transportation departments and recommends minimum levels of quality. The guide incorporates the illuminance and luminance design methods, but does not include the small target visibility (STV) method.

"TRB's National Cooperative Highway Research Program (NCHRP) Report 745: *Left-Turn Accommodations at Unsignalized Intersections* presents guidance for the selection and design of left-turn accommodations at unsignalized intersections. The report includes 11 case studies of typical situations that illustrate the use of the guidance." -- publisher's description.

A highly illustrated, practical handbook, covering the different methods of sustain-

able and eco-friendly construction.

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

TRB's National Cooperative Highway Research Program (NCHRP) Report 672: *Roundabouts: An Informational Guide - Second Edition* explores the planning, design, construction, maintenance, and operation of roundabouts. The report also addresses issues that may be useful in helping to explain the trade-offs associated with roundabouts. This report updates the U.S. Federal Highway Administration's *Roundabouts: An Informational Guide*, based on experience gained in the United States since that guide was published in 2000.

"TRB's National Cooperative Highway Research Program (NCHRP) Research Report 839: *A Performance-Based Highway Geometric Design Process* reviews the evolution of highway design, presents several key principles for today's design challenges, provides suggestions for a new highway geometric design process,

and demonstrates the value of the process through six case studies. The new process focuses on the transportation performance of the design rather than the selection of values from tables of dimensions applied across the range of facility types." - Publisher description

This report contains guidelines and recommendations for managing and designing for friction on highway pavements. The contents of this report will be of interest to highway materials, construction, pavement management, safety, design, and research engineers, as well as others concerned with the friction and related surface characteristics of highway pavements.

Get a complete look into modern traffic engineering solutions Traffic Engineering Handbook, Seventh Edition is a newly revised text that builds upon the reputation as the go-to source of essential traffic engineering solutions that this book has maintained for the past 70 years. The updated content reflects changes in key industry standards, and shines a spotlight on the needs of all users, the design of context-sensitive roadways, and the development of more sustainable transportation solutions. Additionally, this resource features a new organizational structure that promotes a more functionally-driven, multimodal approach to planning, designing, and implementing transportation solutions. A branch of civil engineering, traffic engineering concerns the safe and efficient movement of people and goods along roadways. Traffic flow, road geometry, sidewalks, crosswalks, cycle facilities, shared lane markings, traffic signs, traffic lights, and more—all of these elements must be considered when designing public and private sector transportation solutions. Explore the fundamental concepts of traffic engineering as they re-

late to operation, design, and management Access updated content that reflects changes in key industry-leading resources, such as the Highway Capacity Manual (HCM), Manual on Uniform Traffic Control Devices (MUTCD), AASHTO Policy on Geometric Design, Highway Safety Manual (HSM), and Americans with Disabilities Act Understand the current state of the traffic engineering field Leverage revised information that homes in on the key topics most relevant to traffic engineering in today's world, such as context-sensitive roadways and sustainable transportation solutions Traffic Engineering Handbook, Seventh Edition is an essential text for public and private sector transportation practitioners, transportation decision makers, public officials, and even upper-level undergraduate and graduate students who are studying transportation engineering.

This unique book presents comprehensive and in-depth coverage of traffic engineering. KEY TOPICS It discusses all modern topics in traffic engineering, including design, construction, operation, maintenance, and system. For anyone involved in traffic studies, engineering, analysis, and control and operations.

"This guide provides information on how to accommodate bicycle travel and operations in most riding environments. It is intended to present sound guidelines that result in facilities that meet the needs of bicyclists and other highway users. Sufficient flexibility is permitted to encourage designs that are sensitive to local context and incorporate the needs of bicyclists, pedestrians, and motorists." -- Publisher's website.

NACTO's Urban Bikeway Design Guide quickly emerged as the preeminent resource for designing safe, protected bikeways in cities across the United States. It

has been completely re-designed with an even more accessible layout. The Guide offers updated graphic profiles for all of its bicycle facilities, a subsection on bicycle boulevard planning and design, and a survey of materials used for green color in bikeways. The Guide continues to build upon the fast-changing state of the practice at the local level. It responds to and accelerates innovative street design and practice around the nation.

The NACTO Urban Street Design Guide shows how streets of every size can be reimagined and reoriented to prioritize safe driving and transit, biking, walking, and public activity. Unlike older, more conservative engineering manuals, this design guide emphasizes the core principle that urban streets are public places and have a larger role to play in communities than solely being conduits for traffic. The well-illustrated guide offers blueprints of street design from multiple perspectives, from the bird's eye view to granular details. Case studies from around the country clearly show how to implement best practices, as well as provide guidance for customizing design applications to a city's unique needs. Urban Street Design Guide outlines five goals and tenets of world-class street design:

- Streets are public spaces. Streets play a much larger role in the public life of cities and communities than just thoroughfares for traffic.
- Great streets are great for business. Well-designed streets generate higher revenues for businesses and higher values for homeowners.
- Design for safety. Traffic engineers can and should design streets where people walking, parking, shopping, bicycling, working, and driving can cross paths safely.
- Streets can be changed. Transportation engineers can work flexibly within the building envelope of a street. Many city

streets were created in a different era and need to be reconfigured to meet new needs.

- Act now! Implement projects quickly using temporary materials to help inform public decision making.

Elaborating on these fundamental principles, the guide offers substantive direction for cities seeking to improve street design to create more inclusive, multi-modal urban environments. It is an exceptional resource for redesigning streets to serve the needs of 21st century cities, whose residents and visitors demand a variety of transportation options, safer streets, and vibrant community life.

"TRB's National Cooperative Highway Research Program (NCHRP) Report 780: Design Guidance For Intersection Auxiliary Lanes expands on guidance provided in A Policy on Geometric Design of Highways and Streets (the Green Book), published by the American Association of State Highway and Transportation Officials (AASHTO). This report highlights information regarding bypass lanes, channelized right-turn lanes, deceleration and taper length, design and capacity of multiple left-turn lanes, and alternative intersection designs."--Publisher description.

TRB's National Cooperative Highway Research Program (NCHRP) Report 683: Protocols for Collecting and Using Traffic Data in Bridge Design explores a set of protocols and methodologies for using available recent truck traffic data to develop and calibrate vehicular loads for superstructure design, fatigue design, deck design, and design for overload permits. The protocols are geared to address the collection, processing, and use of national weigh-in-motion (WIM) data. The report also gives practical examples of implementing these protocols with recent national WIM data drawn from states/sites around the country with

different traffic exposures, load spectra, and truck configurations. The material in this report will be of immediate interest to bridge engineers. This report replaces NCHRP Web-Only Document 135: Protocols for Collecting and Using Traffic Data in Bridge Design. Appendices A through F for NCHRP Report 683 are available only online.

Highway engineers, as designers, strive to meet the needs of highway users while maintaining the integrity of the environment. Unique combinations of design controls and constraints that are often conflicting call for unique design solutions. A Policy on Geometric Design of Highways and Streets provides guidance based on established practices that are supplemented by recent research. This document is also intended as a comprehensive reference manual to assist in administrative, planning, and educational efforts pertaining to design formulation.

This book takes a look at fully automated, autonomous vehicles and discusses many open questions: How can autonomous vehicles be integrated into the current transportation system with diverse users and human drivers? Where do automated vehicles fall under current legal frameworks? What risks are associated with automation and how will society respond to these risks? How will the marketplace react to automated vehicles and what changes may be necessary for companies? Experts from Germany and the United States define key societal, engineering, and mobility issues related to the automation of vehicles. They discuss the decisions programmers of automated vehicles must make to enable vehicles to perceive their environment, interact with other road users, and choose actions that may have ethical consequences. The authors further identify ex-

pectations and concerns that will form the basis for individual and societal acceptance of autonomous driving. While the safety benefits of such vehicles are tremendous, the authors demonstrate that these benefits will only be achieved if vehicles have an appropriate safety concept at the heart of their design. Realizing the potential of automated vehicles to reorganize traffic and transform mobility of people and goods requires similar care in the design of vehicles and networks. By covering all of these topics, the book aims to provide a current, comprehensive, and scientifically sound treatment of the emerging field of "autonomous driving".

This book reports on cutting-edge theories and methods for analyzing complex systems, such as transportation and communication networks and discusses multidisciplinary approaches to dependability problems encountered when dealing with complex systems in practice. The book presents the most noteworthy methods and results discussed at the International Conference on Reliability and Statistics in Transportation and Communication (RelStat), which took place in Riga, Latvia on October 16 - 19, 2019. It spans a broad spectrum of topics, from mathematical models and design methodologies, to software engineering, data security and financial issues, as well as practical problems in technical systems, such as transportation and telecommunications, and in engineering education.

RB's National Cooperative Highway Research Program (NCHRP) Synthesis 432: Recent Roadway Geometric Design Research for Improved Safety and Operations reviews and summarizes roadway geometric design literature completed and published from 2001 through early 2011, particularly research that iden-

tified impacts on safety and operations. "Research sponsored by the American Association of State Highway and Transportation Officials in cooperation with the Federal Highway Administration." Explore the Art and Science of Geometric Design The Geometric Design of Roads Handbook covers the design of the visible elements of the road—its horizontal and vertical alignments, the cross-section, intersections, and interchanges. Good practice allows the smooth and safe flow of traffic as well as easy maintenance. Geometric design is covered in depth. The book also addresses the underpinning disciplines of statistics, traffic flow theory, economic and utility analysis, systems analysis, hydraulics and drainage, capacity analysis, coordinate calculation, environmental issues, and public transport. Background Material for the Practicing Designer A key principle is recognizing what the driver wishes to do rather than what the vehicle can do. The book takes a human factors approach to design, drawing on the concept of the "self-explaining road." It also emphasizes the need for consistency of design and shows how this can be quantified, and sets out the issues of the design domain context, the extended design domain concept, and the design exception. The book is not simply an engineering manual, but properly explores context-sensitive design. Discover and Develop Real-World Solutions Changes in geometric design over the last few years have been dramatic and far-reaching and this is the first book to draw these together into a practical guide which presents a proper and overriding philosophy of design for road and highway designers, and students. This text: Covers the basics of geometric design Explores key aspects of multimodal design Addresses drainage and environmental issues Reviews practi-

cal standards, procedures, and guidelines Provides additional references for further reading A practical guide for graduate students taking geometric design, traffic operations/capacity analysis, and public transport, the Geometric Design of Roads Handbook introduces a novel approach that addresses the human aspect in the design process and incorporates relevant concepts that can help readers create and implement safe and efficient designs.

"Seventy years of a car-only approach—not car-centric, it's car-only—is actually not just non-driver hostile, it's driver hostile. No one benefits." —Beth Osborne, Director, Transportation for America The car-only approach in transportation planning and engineering has led to the construction of roadways that have torn apart and devalued communities, especially Black and Brown communities. Forging a new path to repair this damage requires a community solutions-based approach to planning, designing, and building our roadways. When Lynn Peterson began working as a transportation engineer, she was taught to evaluate roadway projects based only on metrics related to driver safety, allowable speed for the highest number of cars, project schedule, and budget. Involving the community and collaborating with peers were never part of the discussion. Today, Peterson is a recognized leader in transportation planning and engineering, known for her approach that is rooted in racial equity, guided by a process of community engagement, and includes collaboration with other professionals. In *Roadways for People*, Lynn Peterson draws from her personal experience and interviews with leaders in the field to showcase new possibilities within transportation engineering and planning. She incor-

porated a community-solutions based approach in her work at Metro, TriMet, and while running the Washington State Department of Transportation, where she played an instrumental role in the largest transportation bill in that state's history. The community solutions-based approach moves away from the narrow standards of traditional transportation design and focuses instead on a process that involves consistent feedback, learning loops, and meaningful and regular community engagement. This approach seeks to address the transportation needs of the most historically marginalized members of the community. *Roadways for People* is written to empower professionals and policymakers to create transportation solutions that serve people rather than cars. Examples across the U.S.—from Portland, Oregon to Baltimore, Maryland—show what is possible with a community-centered approach. As traditional highway expansions are put on pause around the country, professionals and policymakers have an opportunity to move forward with a better approach. Peterson shows them how.

Context-sensitive solutions (CSS) reflect

the need to consider highway projects as more than just transportation facilities. Depending on how highway projects are integrated into the community, they can have far-reaching impacts beyond their traffic or transportation function. CSS is a comprehensive process that brings stakeholders together in a positive, proactive environment to develop projects that not only meet transportation needs, but also improve or enhance the community. Achieving a flexible, context-sensitive design solution requires designers to fully understand the reasons behind the processes, design values, and design procedures that are used. This AASHTO Guide shows highway designers how to think flexibly, how to recognize the many choices and options they have, and how to arrive at the best solution for the particular situation or context. It also strives to emphasize that flexible design does not necessarily entail a fundamentally new design process, but that it can be integrated into the existing transportation culture. This publication represents a major step toward institutionalizing CSS into state transportation departments and other agencies charged with transportation project development.