

Transportation Engineering And Planning Si Papacostas

Innovative Techniques in Instruction Technology, E-Learning, E-Assessment and Education is a collection of world-class paper articles addressing the following topics: (1) E-Learning including development of courses and systems for technical and liberal studies programs; online laboratories; intelligent testing using fuzzy logic; evaluation of on line courses in comparison to traditional courses; mediation in virtual environments; and methods for speaker verification. (2) Instruction Technology including internet textbooks; pedagogy-oriented markup languages; graphic design possibilities; open source classroom management software; automatic email response systems; tablet-pcs; personalization using web mining technology; intelligent digital chalkboards; virtual room concepts for cooperative scientific work; and network technologies, management, and architecture. (3) Science and Engineering Research Assessment Methods including assessment of K-12 and university level programs; adaptive assessments; auto assessments; assessment of virtual environments and e-learning. (4) Engineering and Technical Education including cap stone and case study course design; virtual laboratories; bioinformatics; robotics; metallurgy; building information modeling; statistical mechanics;

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thermodynamics; information technology; occupational stress and stress prevention; web enhanced courses; and promoting engineering careers. (5) Pedagogy including benchmarking; group-learning; active learning; teaching of multiple subjects together; ontology; and knowledge representation. (6) Issues in K-12 Education including 3D virtual learning environment for children; e-learning tools for children; game playing and systems thinking; and tools to learn how to write foreign languages.

This detailed, interdisciplinary introduction to transportation engineering is ideal as both a comprehensive tutorial and reference. Begins with the basic sciences, mathematics, and engineering mechanics, and gradually introduces new concepts concerning societal context, geometric design, human factors, traffic engineering, and simulation, transportation planning, evaluation. For prospective and practicing transportation engineers.

The integration of technology into the transport planning sector has allowed for more stable, yet increasingly complex models that enable better analysis techniques and new approaches to decision making. These modern advances ensure higher productivity in addressing various planning problems. Using Decision Support Systems for Transportation Planning Efficiency is a valuable reference source of the latest scholarly research on the vast improvements that

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computational innovations have made for transportation planners. Featuring extensive coverage on a range of topics relating to spatial planning, environmental risks of transport, and traffic information systems, this publication is a pivotal reference source for transportation planners, professionals, and academicians seeking expert information on a multitude of transportation issues. This publication features timely chapters relevant to the area of transport planning, including artificial neural network models, logistics hubs, urban growth and expansion, accessibility modeling, sustainable mobility, hazardous materials transport, and urban intersections.

Transportation Infrastructure Engineering: A Multimodal Integration, intended to serve as a resource for courses in transportation engineering, emphasizes transportation in an overall systems perspective. It can serve as a textbook for an introductory course or for upper-level undergraduate and first-year graduate courses. This book, unlike the widely used textbook, Traffic and Highway Engineering, serves a different purpose and is intended for a broader audience. Its objective is to provide an overview of transportation from a multi-modal viewpoint rather than emphasizing a particular mode in great detail. By placing emphasis on explaining the environment in which transportation operates, this book presents the big picture to assist students in understanding why

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transportation systems operate as they do and the role they play in a global society. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Comprehensive Civil Engineering Coverage You Can Trust The Civil Engineering Reference Manual is the most comprehensive textbook for the NCEES Civil PE exam. This book's time-tested organization and clear explanations start with the basics to help you quickly get up to speed with common civil engineering concepts. Together, the 90 chapters provide an in-depth review of all of the topics, codes, and standards listed in the NCEES Civil PE exam specifications. The extensive index contains thousands of entries, with multiple entries included for each topic, so you'll find what you're looking for no matter how you search. This book features: over 100 appendices containing essential support material over 500 clarifying examples over 550 common civil engineering terms defined in an easy-to-use glossary thousands of equations, figures, and tables industry-standard terminology and nomenclature equal support of U.S. customary and SI units After you pass your exam, the Civil Engineering Reference Manual will continue to serve as an invaluable reference throughout your civil engineering career. Topics Covered Construction: Earthwork Construction and Layout; Estimating Quantities and Costs; Construction Operations and Methods;

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Scheduling; Material Quality Control and Production; Temporary Structures; Worker Health, Safety, and Environment Geotechnical: Subsurface Exploration and Sampling; Engineering Properties of Soils and Materials; Soil Mechanics Analysis; Earth Structures; Shallow Foundations; Earth Retaining Structures; Deep Foundations Structural: Loadings; Analysis; Mechanics of Materials; Materials; Member Design; Design Criteria Transportation: Traffic Analysis; Geometric Design; Transportation Planning; Traffic Safety Water Resources and Environmental: Closed Conduit Hydraulics; Open Channel Hydraulics; Hydrology; Groundwater and Well Fields; Wastewater Treatment; Water Quality; Water Treatment; Engineering Economics

Gain unique insights into all facets of today's traffic and highway engineering with the enhanced edition of Garber and Hoel's best-selling TRAFFIC AND HIGHWAY ENGINEERING, SI Edition, 5th Edition. This edition initially highlights the pivotal role that transportation plays in today's society. Readers examine employment opportunities that transportation creates, its historical impact and the influences of transportation on modern daily life. This comprehensive approach offers an accurate understanding of the field with emphasis on some of transportation's distinctive challenges. Later chapters focus on specific issues facing today's transportation engineers to prepare readers to overcome common obstacles in

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the field. Worked problems, diagrams and tables, reference materials and meaningful examples clearly demonstrate how to apply and build upon the transportation engineering principles presented. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The second edition of Introduction to Transportation Engineering has been developed to provide a concise yet thorough introduction to intermodal transportation. One of its underlying concepts is that the basic techniques and principles of transportation engineering are of wide application. For practical reasons, the major emphasis is often on highways, but care is taken to show how basic concepts and techniques apply to different modes. The book strives to provide a background in transportation planning, analysis, and design while emphasizing the social, economic, and political context of transportation engineering. It places major emphasis on important practical topics such as geometric design, Highway Capacity Manual methods, and traffic signal timing, and also emphasizes important theoretical topics such as the fundamental techniques of traffic analysis and the economic theory underlying transportation demand modeling. The text has been revised and updated to reflect the 2000 revision of the Highway Capacity Manual. The numbers of flow charts, diagrams,

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and photos have been increased from the previous edition. The text also offers new open-ended design exercises pertaining to common design problems in transportation such as horizontal and vertical alignment of roads, railways, or runways; traffic design for highways; planning and design of traffic control; and design of bus routes and schedules. These exercises respond to ABET-2000 accreditation requirements, particularly to civil engineering program criteria that require "design experiences integrated throughout the professional component of the curriculum."

An in-depth guide to reverse osmosis desalination This Water Environment Federation and WaterReuse Association publication provides comprehensive information on the planning and engineering of brackish and seawater desalination projects for municipal water supplies. After a brief overview of widely used desalination technologies, Desalination Engineering focuses on reverse osmosis desalination. The book discusses basic principles, planning and environmental review of projects, design and selection of key desalination plant components, desalinated water posttreatment, and concentrate management. Guidelines on sizing and cost estimation of desalination plant facilities are also included in this practical resource.

COVERAGE INCLUDES: Source water quality characterization Fundamentals of reverse osmosis desalination Planning considerations Environmental review and permitting Intakes for source water collection Intake pump stations Source water screening and conditioning Sand removal, sedimentation, and dissolved air flotation Pretreatment by granular media filtration

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Pretreatment by membrane filtration Comparison of granular media and membrane pretreatment Reverse osmosis separation Post-treatment of desalinated water Desalination plant discharge management Desalination project cost estimates

Policy in Urban Planning: Structure Plans, Programmes and Local Plans provides an overview of the policy in urban planning. The title details the different policy statements available in expressing urban planning policy. The first part of the text talks about the need for policy; this part tackles activities, resources, and change, along with the forces of environmental change and ways to control environmental change. The second part of the selection covers concerns in the expression of policy, and discusses topics such as the nature of policy; some dimension of policy planning; and policy statement. The last part of the text details the making of policy. The book will be of great interest to political scientists, sociologists, local government officials, and urban planners.

This book presents select proceedings of the 5th International Conference on Advances in Civil Engineering (ICACE 2020), covering basic civil engineering branches. The book covers some hands-on articles on different realistic problems in civil engineering. It highlights the current application of advanced civil engineering knowledge in developing countries. Various topics covered include construction and building materials, eco-friendly ground improvement, water and wastewater management, solid waste management, durability of concrete structures, various aspects of foundation engineering, transportation engineering & planning scenarios in developing countries, and highway materials. A few articles also discussed the advancement in civil engineering fields from global perspectives too. The book will be useful for professionals and researchers working in the area of civil engineering.

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You can use this book to design a house for yourself with your family; you can use it to work with your neighbors to improve your town and neighborhood; you can use it to design an office, or a workshop, or a public building. And you can use it to guide you in the actual process of construction. After a ten-year silence, Christopher Alexander and his colleagues at the Center for Environmental Structure are now publishing a major statement in the form of three books which will, in their words, "lay the basis for an entirely new approach to architecture, building and planning, which will we hope replace existing ideas and practices entirely." The three books are *The Timeless Way of Building*, *The Oregon Experiment*, and this book, *A Pattern Language*. At the core of these books is the idea that people should design for themselves their own houses, streets, and communities. This idea may be radical (it implies a radical transformation of the architectural profession) but it comes simply from the observation that most of the wonderful places of the world were not made by architects but by the people. At the core of the books, too, is the point that in designing their environments people always rely on certain "languages," which, like the languages we speak, allow them to articulate and communicate an infinite variety of designs within a forma system which gives them coherence. This book provides a language of this kind. It will enable a person to make a design for almost any kind of building, or any part of the built environment. "Patterns," the units of this language, are answers to design problems (How high should a window sill be? How many stories should a building have? How much space in a neighborhood should be devoted to grass and trees?). More than 250 of the patterns in this pattern language are given: each consists of a problem statement, a discussion of the problem with an illustration, and a solution. As the authors say in their introduction, many of the patterns are archetypal, so deeply rooted in the nature of things

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that it seems likely that they will be a part of human nature, and human action, as much in five hundred years as they are today.

This collection contains 125 papers presented at the Eighth International Conference on Applications of Advanced Technologies in Transportation Engineering, held in Beijing, China, on May 26-28, 2004.

This is the only current and in print book covering the full field of transit systems and technology. Beginning with a history of transit and its role in urban development, the book proceeds to define relevant terms and concepts, and then present detailed coverage of all urban transit modes and the most efficient system designs for each. Including coverage of such integral subjects as travel time, vehicle propulsion, system integration, fully supported with equations and analytical methods, this book is the primary resource for students of transit as well as those professionals who design and operate these key pieces of urban infrastructure.

A multi-disciplinary approach to transportation 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

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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.

Provides a clear and up-to-date guide to the engineering practice needed for the planning, development, implementation and management of transport systems setting them clearly within their social, economic and political context.

This book helps readers maximize effectiveness in all facets of highway engineering including planning, design, operations, safety, and geotechnical engineering. Highway Engineering: Planning, Design, and Operations features a seven part treatment, beginning with a clear and rigorous exposition of highway engineering concepts. These include project development, and the relationship between planning, operations, safety, and highway types (functional classification). Planning concepts and a four-step process overview are covered, along with trip

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generation, equations versus rates, trip distribution, and shortest path models equations versus rates. This is followed by parts concerning applications for horizontal and vertical alignment, highway geometric design, traffic operations, traffic safety, and civil engineering topics. Covers traffic flow relationships and traffic impact analysis, collision analysis, road safety audits, advisory speeds Applications for horizontal and vertical alignment, highway geometric design, traffic operations, traffic safety, civil engineering topics Engineering considerations for highway planning design and construction are included, such as hydraulics, geotechnical engineering, and structural engineering

High-Speed Rail Planning, Policy, and Engineering: Trends and Advanced Concepts in High-Speed Rail looks at some of the most recent developments in high speed and other ground transportation around the world, and closely examines the Northeast Corridor in the United States, surveying the flaws and potentialities, projecting what could be done with some moderate improvements in its infrastructure. Other possible improvements with more general application are reviewed, and some non-rail transportation alternatives are also examined.

Transportation Engineering and Planning Pearson College Division

First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil engineering research and practice. The Civil Engineering Handbook, Second Edition is more comprehensive than ever. You'll find new, updated, and expanded coverage in every section. In fact, more than 1/3 of the handbook is new or substantially revised. In particular you'll find increased focus on

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computing reflecting the rapid advances in computer technology that has revolutionized many aspects of civil engineering. You'll use it as a survey of the field, you'll use it to explore a particular subject, but most of all you'll use The Civil Engineering Handbook to answer the problems, questions, and conundrums you encounter in practice.

Issues in Urban Policy and Planning / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Urban Policy and Planning. The editors have built Issues in Urban Policy and Planning: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Urban Policy and Planning in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Urban Policy and Planning: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Life-Cycle Civil Engineering: Innovation, Theory and Practice contains the lectures and papers presented at IALCCE2020, the Seventh International Symposium on Life-Cycle Civil Engineering, held in Shanghai, China, October 27-30, 2020. It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions, including the Fazlur R. Khan lecture, eight keynote lectures, and 221 technical papers from all over the world. All major aspects of life-cycle engineering are addressed, with special emphasis on life-

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cycle design, assessment, maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards. It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life-cycle of civil infrastructure systems, including students, researchers, engineers and practitioners from all areas of engineering and industry.

Discover insider secrets of how America's transportation system is designed, funded, and built – and how to make it work for your community In *Confessions of a Recovering Engineer: Transportation for a Strong Town*, renowned speaker and author of *Strong Towns* Charles L. Marohn Jr. delivers an accessible and engaging exploration of America's transportation system, laying bare the reasons why it no longer works as it once did, and how to modernize transportation to better serve local communities. You'll discover real-world examples of poor design choices and how those choices have dramatic and tragic effects on the lives of the people who use them. You'll also find case studies and examples of design improvements that have revitalized communities and improved safety. This important book shows you: The values of the transportation professions, how they are applied in the design process, and how those priorities differ from those of the public. How the standard approach to transportation ensures the maximum amount of traffic congestion possible is created each day, and how to fight that congestion on a budget. Bottom-up techniques for spending less and getting higher returns on transportation projects, all while improving quality of life for residents. Perfect

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for anyone interested in why transportation systems work – and fail to work – the way they do, *Confessions of a Recovering Engineer* is a fascinating insider's peek behind the scenes of America's transportation systems.

Bicycling for Transportation examines the individual and societal factors of active transportation and biking behavior. The book uses an Interdisciplinary approach to provide a comprehensive overview of bicycling for transportation research. It examines the variability in biking participation among different demographic groups and the multiple levels of influence on biking to better inform researchers and practitioners on the effective use of community resources, programming and policymaking. It is an ideal resource for public health professionals trying to encourage physical activity through biking. In addition, it makes the case for new infrastructure that supports these initiatives. Provides evidence-based insights on cost-effective interventions for improving biking participation Includes numerous case studies and best practices that highlight multi-level approaches in a variety of settings Explores individual and social factors related to biking behavior, such as race, gender and self-efficacy

For a one/two-semester undergraduate survey, and/or for graduate courses on Traffic Engineering, Highway Capacity Analysis, and Traffic Control and Operations. Presents coverage of traffic engineering. It covers all modern topics in traffic engineering, including design, construction, operation, maintenance, and system optimization.

Transportation Engineering: Theory, Practice and Modeling is a guide for integrating

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multi-modal transportation networks and assessing their potential cost and impact on society and the environment. Clear and rigorous in its coverage, the authors begin with an exposition of theory related to traffic engineering and control, transportation planning, and an evaluation of transportation alternatives that is followed by models and methods for predicting travel and freight transportation demand, analyzing existing and planning new transportation networks, and developing traffic control tactics and strategies. Written by an author team with over thirty years of experience in both research and teaching, the book incorporates both theory and practice to facilitate greener solutions. Contains worked out examples and end of the chapter questions Covers all forms of transportation engineering, including air, rail, and public transit modes Includes modeling and analytical procedures for supporting different aspects of traffic and transportation analyses Examines different transport mode sand how to make them sustainable Explains the economics of transport systems in terms of users' value of time

Now in dynamic full color, SI ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING, 5e helps students develop the strong problem-solving skills and solid foundation in fundamental principles they will need to become analytical, detail-oriented, and creative engineers. The book opens with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to succeed. It then covers the basic physical concepts and laws that

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students will encounter on the job. Professional Profiles throughout the text highlight the work of practicing engineers from around the globe, tying in the fundamental principles and applying them to professional engineering. Using a flexible, modular format, the book demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Revised edition of Transportation planning handbook, 2009.

Civil Engineering and Urban Planning III addresses civil engineering and urban planning issues associated with transportation and the environment. The contributions not only highlight current practices in these areas, but also pay attention to future research and applications, and provide an overview of the progress made in a wide variety of topics in the areas of: - Civil Engineering - Architecture and Urban Planning - Transportation Engineering Including a wealth of information, Civil Engineering and Urban Planning III is of interest to academics and students in civil engineering and urban planning.

This unique book explains how to think systematically about public transportation through the lens of physics models. The book includes aspects of system design, resource management, operations and control. It presents both, basic theories that

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reveal fundamental issues, and practical recipes that can be readily used for real-world applications. The principles conveyed in this book cover not only traditional transit modes such as subways, buses and taxis but also the newer mobility services that are being enabled by advances in telematics and robotics. Although the book is rigorous, it includes numerous exercises and a presentation style suitable for senior undergraduate or entry-level graduate students in engineering. The book can also serve as a reference for transportation professionals and researchers keen in this field.

All phases of road developmentâ€”from construction and use by vehicles to maintenanceâ€”affect physical and chemical soil conditions, water flow, and air and water quality, as well as plants and animals. Roads and traffic can alter wildlife habitat, cause vehicle-related mortality, impede animal migration, and disperse nonnative pest species of plants and animals. Integrating environmental considerations into all phases of transportation is an important, evolving process. The increasing awareness of environmental issues has made road development more complex and controversial. Over the past two decades, the Federal Highway Administration and state transportation agencies have increasingly recognized the importance of the effects of transportation on the natural environment. This report provides guidance on ways to reconcile the different goals of road development and environmental conservation. It identifies the ecological effects of roads that can be evaluated in the planning, design, construction, and maintenance of roads and offers several recommendations to help

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better understand and manage ecological impacts of paved roads.

Planning the Built Environment takes a systematic, technical approach to describing how urban infrastructures work. Accompanied by detailed diagrams, illustrations, tables, and reference lists, the book begins with landforms and progresses to essential utilities that manage drainage, wastewater, power, and water supply. A section on streets, highways, and transit systems is highly detailed and practical. Once firmly grounded in these "macro" systems, Planning the Built Environment examines the physical environments of cities and suburbs, including a discussion of critical elements such as street and subdivision planning, density, and siting of community facilities. Each chapter includes essential definitions, illustrations and diagrams, and an annotated list of references. This timely book explains new physical planning methods and current thinking on cluster development, new urbanism, and innovative transit planning and development. Planners, architects, engineers, and anyone who designs or manages the physical components of urban areas will find this book both an authoritative reference and an exhaustive, understandable technical manual of facts and best practices. Instructors in planning and allied fields will appreciate the practical exercises that conclude each chapter: valuable learning tools for students and professionals alike.

Transportation, Energy Use and Environmental Impacts shows researchers, students and professionals the important connection between transportation planning, energy

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use and emissions. The book examines the major transportation activities, components, systems and subsystems by mode. It closely explores the resulting environmental impacts from transport planning, construction and the decommissioning of transportation systems. It discusses transportation planning procedures from an energy use standpoint, offering guidelines to make transportation more energy consumption efficient. Other sections cover propulsion and energy use systems, focusing on road transportation, railway, waterway, pipeline, air, air pollutants, greenhouse gas emissions, and more. Shows the relationship between road, rail, maritime, air and pipeline transportation activities with fuel use and pollution, greenhouse gases and waste Provides a comprehensive approach, covering transportation system planning, design and infrastructure construction Synthesizes the needed information and data, explaining how to improve transportation system performance Includes learning aids, such as cases from around the globe, a glossary, extensive bibliography, chapter objectives, summaries and exercises

Recent research reveals that socioeconomic factors of the neighborhoods where road users live and where pedestrian-vehicle crashes occur are important in determining the severity of the crashes, with the former having a greater influence. Hence, road safety countermeasures, especially those focusing on the road users, should be targeted at these high risk neighborhoods. Big Data Analytics in Traffic and Transportation Engineering: Emerging Research and Opportunities is an essential reference source

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that discusses access to transportation and examines vehicle-pedestrian crashes, specifically in relation to socioeconomic factors that influence them, main predictors, factors that contribute to crash severity, and the enhancement of pedestrian safety measures. Featuring research on topics such as public transport, accessibility, and spatial distribution, this book is ideally designed for policymakers, transportation engineers, road safety designers, transport planners and managers, professionals, academicians, researchers, and public administrators.

RISA-3D (Rapid Interactive Structural Analysis) is used for structural analysis and design. The tools in RISA-3D are primarily used in structural engineering and they help users to design structural models using both parametric 3D modeling and 2D drafting elements. The RISA-3D model comprise of a physical representation of a structure. The structural modeling in RISA-3D can be used for structural designing and analysis application. The Exploring RISA-3D 14.0 book explains the concepts and principles of RISA-3D through practical examples, tutorials, and exercises. This enables the users to harness the power of structural designing with RISA-3D for their specific use. In this book, the author emphasizes on physical modeling, structural desining, creating load cases, specifying boundary conditions, preparation of project report. This book covers the various stages involved in analyzing. This book is specially meant for professionals and students in structural engineering, civil engineering, and allied fields in the building industry. Salient Features Detailed explanation of RISA-3D Real-world projects given

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as tutorials Tips and Notes throughout the textbook 200 pages of heavily illustrated text
Self-Evaluation Tests, Review Questions, and Exercises at the end of the chapters
Table of Contents Chapter 1: Introduction to RISA-3D Chapter 2: Getting Start with
RISA-3D Chapter 3: Modeling Chapter 4: Loads Chapter 5: Boundary Conditions
Chapter 6: Performing Analysis and Specifying Design Parameters Chapter 7: Viewing
Results and Preparing Report Index

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