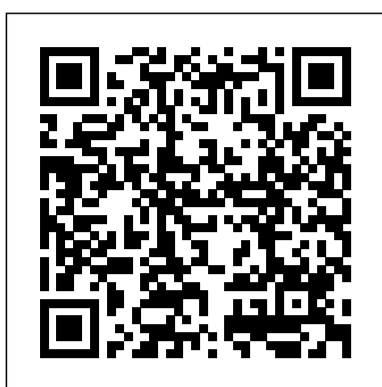


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*Green Buildings and Sustainable Engineering* CRC Press

Over the time, Intelligent Transport System (ITS) has become important for any country not only for traffic congestion management, but also for modern infrastructure and safety. Since there is a dearth of literature on this subject, this book attempts to fill the gap and provides a holistic work on ITS encompassing theory, examples and case studies on various facets in both road and railway sectors. The basic principles of various technologies used for ITS have been explained in such a manner that students from non-technical background can also comprehend them with ease. It also discusses the emerging technologies such as autonomous vehicles, electric vehicles, cooperative vehicle highway system, automated highway systems, 5G mobile technology, etc. Considering the need of huge funds required for ITS implementation, the text provides various funding options available. Conclusively, it is a unique book that contains all aspects of ITS which a student of engineering is expected to know. The book is intended as a text for postgraduate students of transportation engineering and as a reference book for professionals such as transport planners, town planners, traffic engineers, transit operators and consultants. Key Features, • ITS architecture with a number of case studies based on real-life situation • Concept of smart city, importance of advanced transport system, and applications of ITS technologies in smart cities • ITS in Rail sector—intelligent trains, train control systems and intelligent train maintenance practices • Chapter-end questions for practice and bibliography

Transportation Engineering and Planning Traffic Engineering and Transport Planning TRANSPORTATION ENGINEERING Railway Engineering has been specially designed for undergraduate students of civil engineering. From fundamental topics to modern technological developments, the book covers all aspects of the railways including various modernization plans covering tracks, locomotives, and rolling stock. Important statistical data about the Indian Railways and other useful information have also been incorporated to make the coverage comprehensive. A number of illustrative examples supplement text to aid easy understanding of design methods discussed. The book should also serve the need of students of polytechnics and those appearing of the AMIE examination and would also be a ready reference for railway professionals.

*Airport Engineering* PHI Learning Pvt. Ltd.

*Highway Engineering: Planning, Design, and Operations*, Second Edition, presents a clear and rigorous exposition of highway engineering concepts, including project development and the relationship between planning, operations, safety and highway types. The book includes important topics such as corridor selection and traverses, horizontal and vertical alignment, design controls, basic roadway design, cross section elements, intersection and interchange design, and the integration of new vehicle technologies and trends. It also presents end of chapter exercises to further aid understanding and learning. This edition has been fully updated with the current design policies and reference manuals essential for highway, transportation, and civil engineers who are required to work to these standards. Provides an updated resource on current design standards from the Highway Capacity Manual and the Green Book Covers fundamental traffic flow relationships and traffic impact analysis, collision analysis, road safety audits and advisory speeds Presents the latest applications and engineering considerations for highway planning, design and construction

*Proceedings of International Conference on Advances in Computer Engineering and Communication Systems* Elsevier Logical development of the concepts and applications of traffic stream theory and operations analysis. Includes many worked examples and homework problems.

*Metropolitan Transportation Planning* New Age International

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.

*Urban Transportation* S. Chand Publishing International Academic Conference on Teaching, Learning

and E-learning and International Academic Conference on Management, Economics and Marketing and International Academic Conference on Transport, Logistics, Tourism and Sport Science

*Quantitative Aptitude for Competitive Examinations* Butterworth-Heinemann

Interdisciplinary introduction to transportation engineering serving as a comprehensive text as well as a frequently cited reference for a course in transportation engineering in the Civil Engineering Department.

*Urban Transit* John Wiley & Sons

The only modern text to cover all aspects of urban transit operations, planning, and economics Global in scope, up-to-date with current practice, and written by an internationally renowned expert, *Urban Transit: Operations, Planning, and Economics* is a unique volume covering the full range of issues involved in the operation, planning, and financing of transit systems. Presenting both theoretical concepts and practical, real-world methodologies for operations, planning and analyses of transit systems, this book is a comprehensive single-volume text and reference for students as well as professionals. The thorough examination of technical fundamentals and management principles in this book enables readers to address projects across the globe despite nuances in regulations and laws. Dozens of worked problems and end-of-chapter exercises help familiarize the reader with the formulae and analytical techniques presented in the book's three convenient sections: Transit System Operations and Networks Transit Agency Operations, Economics, and Organization Transit System Planning Visually enhanced with nearly 250 illustrations, *Urban Transit: Operations, Planning, and Economics* is a reliable source of the latest information for transit planners and operators in transit agencies, metropolitan planning organizations, city governments, consulting firms as well as students of transportation engineering and city planning at universities and in professional courses.

*Traffic Engineering and Transport Planning* Routledge

Traffic Engineering and Transport Planning TRANSPORTATION ENGINEERING KHANNA PUBLISHING

TRANSPORTATION PLANNING Czech Institute of Academic Education

This book comprises the best deliberations with the theme "Smart Innovations in Mezzanine Technologies, Data Analytics, Networks and Communication Systems" in the "International Conference on Advances in Computer Engineering and Communication Systems (ICACECS 2020)", organized by the Department of Computer Science and Engineering, VNR Vignana Jyothi Institute of Engineering and Technology. The book provides insights on the recent trends and developments in the field of computer science with a special focus on the mezzanine technologies and creates an arena for collaborative innovation. The book focuses on advanced topics in artificial intelligence, machine learning, data mining and big data computing, cloud computing, Internet on things, distributed computing and smart systems.

*Fundamentals of Transportation Engineering* Pearson Education India

Ideal for students on all construction courses Topics presented concisely in plain language and with clear drawings Updated to include revisions to Building and Construction regulations The Building Construction Handbook is THE authoritative reference for all construction students and professionals. Its detailed drawings clearly illustrate the construction of building elements, and have been an invaluable guide for builders since 1988. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice, techniques, and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction. This new edition has been updated to reflect recent changes to the building regulations, as well as new material on the latest technologies used in domestic construction. Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry.

Stosius Incorporated/Advent Books Division For B.E./B.Tech. & M.E./M.Tech. Students of Civil Engineering. Also for Practising Engineering and Designers *Building Construction Handbook* CRC Press

This detailed introduction to transportation engineering is designed to serve as a comprehensive text for under-graduate as well as first-year master's students in civil engineering. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems, from the perspective of Indian conditions.

*Traffic Flow Fundamentals* Prentice Hall

For Civil Engineering Students of All Indian Universities and Practising Engineers

*Principles of Highway Engineering and Traffic Analysis* PHI Learning Pvt. Ltd.

India's Transport System has several deficiencies such as inadequate capacity, poor safety record, emission of pollutants and outmoded technology. But as the economy is poised for a big growth in the coming years transportation engineers will have to come up with innovative ideas. The book addresses these issues and it is hoped that the engineering students studying transportation engineering will have a clear idea of the problems involved and how they transportation engineering will have a clear idea of the problems involved and how they can be overcome in their professional career.

*Structural Design of Buildings* S. Chand Publishing

This book comprises the proceedings of the International Conference on Green Buildings and Sustainable Engineering (GBSE 2019), which focused on the theme "Ecotechnological and Digital Solutions for Smart Cities". The papers included address all aspects of green buildings and sustainability practices in civil engineering, and focus on ways and means of reducing pollution and degradation of the environment through efficient usage of energy and water. The book will prove a valuable reference resource for researchers, practitioners, and policy makers.

*Planning, Design, and Operations* Springer Nature

Highly regarded for its clarity and depth of coverage, the bestselling *Principles of Highway Engineering and Traffic Analysis* provides a comprehensive introduction to the highway-related problems civil engineers encounter every day. Emphasizing practical applications and up-to-date methods, this book prepares students for real-world practice while building the essential knowledge base required of a transportation professional. In-depth coverage of highway engineering and traffic analysis, road vehicle performance, traffic flow and highway capacity, pavement design, travel demand, traffic forecasting, and other essential topics equips students with the understanding they need to analyze and solve the problems facing America's highway system. This new Seventh Edition features a new e-book format that allows for enhanced pedagogy, with instant access to solutions for selected problems. Coverage focuses exclusively on highway transportation to reflect the dominance of U.S. highway travel and the resulting employment opportunities, while the depth and scope of coverage is designed to prepare students for success on standardized civil engineering exams.

*Highway Engineering* Tata McGraw-Hill Education

The increase in transportation systems has fueled the growth of traffic engineering. Traffic safety, counter-measures for road traffic accidents, etc. are some of the important areas wherein the focus of transport planning and traffic engineering lie. This book attempts to understand the multiple branches that fall under the discipline of traffic engineering and how such concepts have practical applications in the modern times. Included in this book are elucidations on important topics like traffic planning, control and management, traffic and transport safety, traffic policies, urban transit systems, traffic information engineering and control, etc. Students, researchers, experts and all associated with traffic and transportation engineering and allied branches of engineering will benefit alike from this book.

*Traffic and Highway Engineering* John Wiley & Sons *Global Practices on Road Traffic Signal Control* is a valuable reference on the current state-of-the-art of road traffic signal control around the world. The book provides a detailed description of the common principles of road traffic signal control using a well-defined and consistent format that examines their application in countries and regions across the globe. This important resource considers the differences and special considerations across countries, providing useful insights into selecting control strategies for signal timing at intersections and pedestrian crosswalks. The book's authors also include success stories for coping with increasing traffic-related problems, examining both constraints and the reasons behind them. Presents a comprehensive reference on country-by-country practices on road traffic signal control Compiles and

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compares approaches across countries Covers theories and common principles Examines the most current systems and their implementation

*Crisis in Road Transport* Pearson College Division

Transportation planning plays a key role as a lifeline for any society. It comprises applications of science and art, where a great deal of judgment coupled with its technical elements is required to arrive at a meaningful decision in order to develop transportation infrastructure facilities for the community. It, thereby, helps in achieving a safer, faster, comfortable, convenient, economical, sustainable and environment-friendly movement of people and goods traffic. In this context, the book has been written, and now updated in the second edition dealing with the basic principles and fundamentals of transportation planning. It also keeps abreast of the current techniques practices and policies conducted in transportation planning. Exploiting a systematic approach avoiding prolixity, this book will prove to be a vade mecum for the undergraduate and postgraduate students of civil engineering and transportation engineering. Besides, the book is of immense benefit to the students opting a course on Mater of Planning conducted in various institutes. HIGHLIGHTS OF THE BOOK

- Systematically organised concepts well-supported with ample illustrations
- Prodigious illustrative figures and tables
- Chapter-end summary helps in grasping the quirk concepts
- State-of-the-art data garnered in the book presents an updated version
- Chapter-end review questions help students to prepare for the examination

NEW TO THE SECOND EDITION

- Provides Fuzzy Logic, Artificial Neural Network and Neuro Fuzzy Model techniques (Chapter 4)
- Incorporates the formation of travel demand model with soft computing techniques including trip generation model (Chapter 5)
- Provides a practical approach of calibrating Origin Destination Matrix (Chapter 6)
- Incorporates the concept of mode choice models with a number of worked-out examples (Chapter 7)
- Provides a case study on mobility plan of Gandhinagar, Gujarat, demonstrating the development of all stages of transport modelling (Chapter 11)
- Includes a new appendix on "Applications of Soft Computing in Trip Distribution and Traffic Assignment"