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Publisher Description

With the ongoing development of new highway projects throughout the country, the demand for highway engineers is rapidly increasing. This transportation engineering text will help interested engineers solve the highway-related problems that are most likely to be encountered in the field. It not only covers the key principles but also prepares them for the Fundamentals of Engineering (FE) and/or Principles and Practice of Engineering (PE) exams in civil engineering. Topics include road vehicle performance, the geometric alignment of highways, pavement design, traffic analysis, queuing theory, signalized intersections, the assessment of level of service, and traffic forecasting. · Introduction to Highway Engineering and Traffic Analysis · Road Vehicle Performance · Geometric Design of Highways · Pavement Design · Fundamentals of Traffic Flow and Queuing Theory · Highway Capacity and Level of Service Analysis · Traffic Control and Analysis at Signalized Intersections · Travel Demand and Traffic Forecasting

Market_Desc: Civil Engineers Special Features: · Incorporates expanded coverage of intersection sight distance, basics of signal timing, interchange design, and the current state of the highway profession · Integrates new sample FE exam questions to better prepare engineers · Includes the latest specifications for highway design and traffic engineering · Highlights common mistakes throughout the chapters to arm engineers with expert insight · Provides new examples that show how the material is applied on the job About The Book: There is more demand than ever for highway engineers due to new highway projects throughout the country. This new fourth edition provides interested engineers with the information needed to solve the highway-related problems that are most likely to be encountered in the field. It includes updated coverage on intersection sight distance, basics of signal timing, and interchange design. New sample FE exam questions are also presented throughout the chapters. Engineers will not only learn the important principles but they'll also be better prepared for the civil engineering exams.

For B.E./B.Tech. & M.E/ M.Tech. Students of Civil Engineering. Also for Practising Engineering and Designers

This book is designed to serve as a comprehensive text for undergraduate as well as first-year master's students of civil engineering in India. Now, in the second edition, the book incorporates a thorough revision and extension of topics covered in the previous edition. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems. SALIENT FEATURES OF THE BOOK • Analysis of characteristics of vehicles and drivers that affect traffic and design of traffic facilities. • Principles of road geometry design and how to lay a road. • Characterization and analysis of flows on highways, unsignalized and signalized intersections, toll plazas, etc. • Design principles for traffic facilities. • Engineering characteristics of pavement materials. • Structural analysis and design of highway pavements. • Principles of pavement design with special reference to the Indian conditions. • Evaluation and maintenance of highways. HIGHLIGHTS OF THE SECOND EDITION • Incorporates the latest and up-to-date information on the topics covered. • Includes a large number of figures, tables, worked-out examples, and exercises highlighting practical engineering design problems. • Elaborates text by introducing new sections on Continuum Models of Traffic Flow, Traffic Flow at Toll Plazas, Determination of Critical Gap, Occlusion of Signs, Fleet Allocation, Vehicle and Crew Assignment, Elastic Solution of Layered Structures, Analysis of Concrete Pavement Structures, Functional Evaluation of Pavements, Highway Economics and Finance, etc. in respective chapters.

The repair, renovation and replacement of highway infrastructure, along with the provision of new highways, is a core element of civil engineering, so this book covers basic theory and practice in sufficient depth to provide a solid grounding to students of civil engineering and trainee practitioners. Moves in a logical sequence from the planning and economic justification for a highway, through the geometric design and traffic analysis of highway links and intersections, to the design and maintenance of both flexible and rigid pavements Covers geometric alignment of highways, junction and pavement design, structural design and pavement maintenance Includes detailed discussions of traffic analysis and the economic appraisal of projects Makes frequent reference to the Department of Transport's Design Manual for Roads and Bridges Places the provision of roads and motorways in context by introducing the economic, political, social and administrative dimensions of the subject

Comprehensive introduction to the highway-related challenges that civil engineers face, featuring an abridged print companion The seventh edition of Principles of Highway Engineering and Traffic Analysis provides in-depth coverage of highway issues encountered by engineers. By focusing on practical applications and relevant methods, the book prepares engineering students to be transportation professionals. Its topics address highway engineering and traffic analysis; road vehicle performance; highway capacity; pavement design; travel flow, demand, and forecasting; as well as other areas. The content is designed to provide students with the knowledge base they need to analyze and solve U.S. highway system problems. This set includes an abridged bound print companion with Wiley E-Text Reg Card.

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