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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.

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

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

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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.

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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.

The importance of highway transportation to the industrial and technological complex of the United States and other industrialized nations cannot be overstated. Virtually every aspect of modern economies, and the ways of life they support, can be tied directly or indirectly to highway transportation. From the movement of freight and people to the impact on residential, commercial, and industrial locations, highways have had, and continue to have, a profound effect on the world economy and societal development. In the United States, the manner in which highways have come to dominate the transportation system has been studied for decades as a cultural, political, and economic phenomenon. Without a doubt, the demand for unrestricted mobility and unlimited access to resources has played an important role and helped to quickly move highway transportation to its dominant position from the middle of the 20th century onward. The construction of the interstate highway system remains to this day the largest infrastructure project in human history. At the time, it underscored the nation's commitment to the unrestricted mobility of its populace and to the economic opportunities that such a system would provide its industrial and service industries. Today, additional highway expansion and maintenance of existing highway systems continue to represent an enormous investment in public infrastructure an investment with an immeasurable impact on society in terms of mobility, economic opportunities, and environmental implications, including consumption of resources and pollution. There is more demand than ever for highway engineers due to new highway projects throughout the country. This book interested engineers with the information needed to solve the highway-related problems that are most likely to be encountered in the field. It includes 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.

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