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Lecture 05 Traffic Characteristics

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CE 361 – Transportation Engineering

\$72.00 \$57.60 Ebook Highly regarded for its clarity and depth of coverage, the bestselling Principles of Highway Engineering and Traffic Analysis provides a comprehensive introduction to the...

Principles of Highway Engineering and Traffic Analysis ...

The book is based, to a great extent, on research--examining highway engineering with special emphasis on geometric design and traffic safety--conducted over the last two decades, which has led to the development of three Safety Criteria for distinguishing good, fair, and poor design practices on newly designed or existing roadway sections and ...

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.

The 5th edition of the Mannering's Principles of Highway Engineering and Traffic Analysis continues to offer a concise approach that covers all the necessary fundamental concepts. New features in this edition include updates and more consistency with the latest edition of the Highway Capacity Manual (HCM); the inclusion of sample FE exam questions, call-out of common mistakes; and added coverage on a qualitative description of the mechanistic approach.

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 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.

The new edition of Garber and Hoel's best-selling TRAFFIC AND HIGHWAY ENGINEERING focuses on giving students insight into all facets of traffic and highway engineering. Students generally come to this course with little knowledge or understanding of the importance of transportation, much less of the extensive career opportunities within the field. Transportation is an extremely broad field, and courses must either cover all transportation modes or focus on specifics. While many topics can be covered with a survey approach, this often lacks sufficient depth and students leave the course without a full understanding of any of the fields. This text focuses exclusively on traffic and highway engineering beginning with a discussion of the pivotal role transportation plays in our society, including employment opportunities, historical impact, and the impact of transportation on our daily lives. This approach gives students a sense of what the field is about as well as an opportunity to consider some of its challenges. Later chapters focus on specific issues facing transportation engineers. The text uses pedagogical tools such as worked problems, diagrams and tables, reference material, and realistic examples to demonstrate how the material is applied. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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.

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.

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.

Updated to take into account changes in highway design manuals and procedures, this book offers an in-depth treatment of highway engineering and traffic analysis.

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