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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 volume brings together scientific experts in different areas that contribute to the railway track and transportation engineering challenges, evaluate the state-of-the-art, identify the shortcomings and opportunities for research and promote the interaction with the industry. In particular, scientific topics that are addressed in this volume include railway ballasted track degradation/settlement problems and stabilization/reinforcement technologies, switches and crossings and related derailments causes, train-induced vibrations and mitigation measures, operations, management and performance of ground transportation, and traffic congestion and safety procedures. The volume is based on the best contributions to the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 - The official international congress of the Soil-Structure Interaction Group in Egypt (SSIGE).

The book presents engineering concepts, techniques, practices, principles, standard procedures, and models that are applied and used to design and evaluate traffic systems, road pavement structures,

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alternatives of transportation systems, roadway horizontal and vertical alignments to ultimately achieve safety, sustainability, efficiency, and cost-effectiveness. The book provides plentiful number of problems on five major areas of transportation engineering and includes broad range of ideas and practical problems that are included in all topics of the book. Furthermore, the book covers problems dealing with theory, concepts, practice, and applications. The solution of each problem in the book follows a step-by-step procedure that includes the theory and the derivation of the formulas in some cases and the computations. Moreover, almost all problems in the five parts of the book include detailed calculations that are solved using the MS Excel worksheets where mathematical, trigonometric, statistical, and logical formulas are used to obtain a more rapid and efficient solution. In some cases, the MS Excel solver tool is used for solving complex equations in several problems of the book. Additionally, numerical methods, linear algebraic methods, and least squares regression techniques are utilized in some problems to assist in solving the problem and make the solution much easier. The book will help academics and professionals to find practical solutions across the spectrum of transportation engineering. The book is designed to be informative and filled with an abundance of solutions to problems in the engineering science of transportation. It is expected that the book will enrich the knowledge and science in transportation engineering, thereby elevating the civil engineering profession in general and the transportation engineering practice in particular as well as advancing the transportation engineering field to the best levels possible. FEATURES: Presents coverage of five major areas in transportation engineering: traffic engineering, pavement materials, analysis, and design, urban transportation planning, highway surveying, and geometric design of highways. Provides solutions to numerous practical problems in transportation engineering including terminology, theory, practice, computation, and design. Includes downloadable and user-friendly MS Excel spreadsheets as well as numerical methods and optimization tools and techniques. Includes several practical case studies throughout. Implements a unique kind of approach in presenting the different topics.

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

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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

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