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and motorways in context by introducing the economic, political, social and administrative dimensions of the subject

Highway Engineering provides an introduction to highway engineering for students on degree and diploma courses in civil engineering. The text sets out procedures and techniques needed for the planning, design and construction of a highway installation, while setting them in their economic and political context. Moving in a logical sequence through every aspect of highway construction, this second edition features an expanded section on the basic concepts of traffic analysis and management with worked examples, as well as detailing the development planning process and how highway engineers interact with this. Other texts have tended to concentrate purely on highway planning and analysis,

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or on pavement design and maintenance aspects of highway engineering. As a result, the standard has tended to be too advanced for students studying the subject for the first time. This textbook covers the basic ground in both areas, featuring worked examples and case studies as an aid to understanding individual topics. The front cover picture and figures on pages 13, 67, 68, 69, 115, 156, 327 and 330 are courtesy of National Roads Authority (NRA). For lecturer resources please go to www.blackwellpublishing.com/rogers

This book helps readers maximize effectiveness in all facets of highway engineering including planning, design, operations, safety, and geotechnical engineering. Highway Engineering: Planning, Design, and Operations features a seven part treatment, beginning with a

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clear and rigorous exposition of highway engineering concepts. These include project development, and the relationship between planning, operations, safety, and highway types (functional classification). Planning concepts and a four-step process overview are covered, along with trip generation, equations versus rates, trip distribution, and shortest path models equations versus rates. This is followed by parts concerning applications for horizontal and vertical alignment, highway geometric design, traffic operations, traffic safety, and civil engineering topics. Covers traffic flow relationships and traffic impact analysis, collision analysis, road safety audits, advisory speeds Applications for horizontal and vertical alignment, highway geometric design, traffic operations, traffic safety, civil engineering topics Engineering considerations for highway planning design and construction are included, such

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as hydraulics, geotechnical engineering,
and structural engineering

This textbook provides a comprehensive and instructive coverage of vehicular traffic flow dynamics and modeling. It makes this fascinating interdisciplinary topic, which to date was only documented in parts by specialized monographs, accessible to a broad readership.

Numerous figures and problems with solutions help the reader to quickly understand and practice the presented concepts. This book is targeted at students of physics and traffic engineering and, more generally, also at students and professionals in computer science, mathematics, and interdisciplinary topics. It also offers material for project work in programming and simulation at college and university level. The main part, after presenting different categories of traffic

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data, is devoted to a mathematical description of the dynamics of traffic flow, covering macroscopic models which describe traffic in terms of density, as well as microscopic many-particle models in which each particle corresponds to a vehicle and its driver. Focus chapters on traffic instabilities and model calibration/validation present these topics in a novel and systematic way. Finally, the theoretical framework is shown at work in selected applications such as traffic-state and travel-time estimation, intelligent transportation systems, traffic operations management, and a detailed physics-based model for fuel consumption and emissions.

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INTRODUCTION TO TRAFFIC

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ENGINEERING: A MANUAL FOR DATA COLLECTION AND

ANALYSIS is meant to aid both the student of traffic engineering and the transportation professional in sound data collection and analysis methods. It presents step-by-step techniques for several traffic engineering topics. Each topic is introduced in a consistent manner, and data collection and analysis forms are provided for each study. Studies are organized to facilitate inclusion in a formal transportation engineering report.

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Developing countries in the tropics have different natural conditions and different institutional and financial situations to industrialized countries. However, most textbooks on highway engineering are based on experience from industrialized countries with temperate climates, and deal only with specific problems. Road Engineering for Development (published as Highway and Traffic Engineering in Developing Countries in its first edition) provides a comprehensive description of the planning, design, construction and maintenance of roads in developing countries. It covers a wide range of technical and non-technical problems that may confront road engineers working in this area. The technical content of the book has been fully updated and current development issues are focused on. Designed as a fundamental text for civil engineering students this book also offers a

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broad, practical view of the subject for practising engineers. It has been written with the assistance of a number of world-renowned specialist professional engineers with many years experience in Africa, the Middle East, Asia and Central America.

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Modern highway engineering reflects an integrated view of a road system's entire lifecycle, including any potential environmental impacts, and seeks to develop a sustainable infrastructure through careful planning and active management. This trend is not limited to developed nations, but is recognized across the globe. Edited by renowned authority

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Understanding of Traffic and Applications

Based on Three-Phase Traffic Theory

shifts the current focus from using modeling and simulation data for traffic measurements to the use of actual data. The book uses real-world, empirically-derived data from a large fleet of connected vehicles, local observations and aerial observation to shed light on key traffic phenomena. Readers will learn how to develop an understanding of the empirical features of vehicular traffic networks and how to consider these features in emerging, intelligent transport systems. Topics cover congestion patterns, fuel consumption, the influence of weather, and much more. This book offers a unique, data-driven analysis of vehicular traffic in traffic networks, also considering how to apply data-driven insights to the intelligent transport systems of the future. Provides an empirically-driven analysis of

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traffic measurements/congestion based on real-world data collected from a global fleet of vehicles Applies Kerner ' s three-phase traffic theory to empirical data Offers a critical scientific understanding of the underlying concerns of traffic control in automated driving and intelligent transport systems

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