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This unique book provides comprehensive and in-depth coverage of traffic engineering. It reflects all the skills necessary for success; including design, construction, operation, maintenance, and system optimization. Using a clear and

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logical structure, the book demonstrates both the theory and methodology behind all standard traffic engineering approaches.

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Road in Belfast deliver projects for our clients across Northern Ireland, UK and Rep of Ireland.

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Language: english. Pages: 802.
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William R. McShane is the Vice President of Operations and Dean of Engineering at Polytechnic University. He earned his B.S.E.E from Manhattan College and his M.S. and Ph.D. in Systems Engineering from Polytechnic University. His areas of interest

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Managing Director Kevin McShane Ltd. Karen is a Civil Engineer and Transport Planner with over 28 years' experience in the Construction Industry. Karen specialises in all aspects of transport planning, traffic surveying and assessment, and

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traffic engineering.

Our Team :: Kevin McShane Ltd.
Traffic engineering deals with
several critical elements of the
transportation system: our streets
and highways, and the

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transportation services they support.

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- Transportation engineering is the application of technology and scientific principles to the

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planning, functional design, operation, and management of facilities for any mode of transportation in order to provide for the safe, rapid, comfortable, convenient, economical, and environmentally compatible movement of people and goods. 3

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Lecture 1- Introduction to traffic engineering

The definition given is as follows:
"Traffic Engineering is that phase of transportation engineering which deals with the planning,

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geometric design and traffic
operations of roads, streets, and...

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of Engineering at Polytechnic University. He earned his B.S.E.E from Manhattan College and his M.S. and Ph.D. In Systems Engineering from Polytechnic University. His areas of interest include quality control, controls and simulation, and engineering

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applicable to an advanced
undergraduate or graduate
engineer...

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About this title This unique book

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presents comprehensive and in-depth coverage of traffic engineering. KEY TOPICS It discusses all modern topics in traffic engineering, including design, construction, operation, maintenance, and system. For anyone involved in traffic studies,

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reflects all the skills necessary for success; including design, construction, operation, maintenance, and system optimization. Using a clear and logical structure, the book demonstrates both the theory and methodology behind all standard

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This unique book presents comprehensive and in-depth coverage of traffic engineering. KEY TOPICS It discusses all modern topics in traffic engineering, including design, construction, operation,

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maintenance, and system. For anyone involved in traffic studies, engineering, analysis, and control and operations.

McShane examines the uniquely

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American relation between auto-mobility and urbanization. Deftly combining urban and technological history, McShane focuses on how new transportation systems -- most important, the private automobile -- and new concepts of the city redefined each other in

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modern America.

The fight for the future of the city street between pedestrians, street railways, and promoters of the automobile between 1915 and 1930. Before the advent of the automobile, users of city streets

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were diverse and included children at play and pedestrians at large. By 1930, most streets were primarily a motor thoroughfares where children did not belong and where pedestrians were condemned as “jaywalkers.” In *Fighting Traffic*, Peter Norton

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argues that to accommodate automobiles, the American city required not only a physical change but also a social one: before the city could be reconstructed for the sake of motorists, its streets had to be socially reconstructed as places

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where motorists belonged. It was not an evolution, he writes, but a bloody and sometimes violent revolution. Norton describes how street users struggled to define and redefine what streets were for. He examines developments in the crucial transitional years from

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the 1910s to the 1930s, uncovering a broad anti-automobile campaign that reviled motorists as “road hogs” or “speed demons” and cars as “juggernauts” or “death cars.” He considers the perspectives of all users—pedestrians, police (who had

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to become “ traffic cops ”), street railways, downtown businesses, traffic engineers (who often saw cars as the problem, not the solution), and automobile promoters. He finds that pedestrians and parents campaigned in moral terms,

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fighting for “ justice. ” Cities and downtown businesses tried to regulate traffic in the name of “ efficiency. ” Automotive interest groups, meanwhile, legitimized their claim to the streets by invoking “ freedom ” —a rhetorical stance of particular power in the

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Our continued use of the combustion engine car in the 21st

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century, despite many rational arguments against it, makes it more and more difficult to imagine that transport has a sustainable future. Offering a sweeping transatlantic perspective, this book explains the current obsession with automobiles by delving deep

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into the motives of early car users. It provides a synthesis of our knowledge about the emergence and persistence of the car, using a broad range of material including novels, poems, films, and songs to unearth the desires that shaped our present “ car society. ”

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Combining social, psychological, and structural explanations, the author concludes that the ability of cars to convey transcendental experience, especially for men, explains our attachment to the vehicle.

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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

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Transportation Infrastructure
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Integration, intended to serve as a resource for courses in transportation engineering, emphasizes transportation in an overall systems perspective. It can serve as a textbook for an introductory course or for upper-level undergraduate and first-year

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graduate courses. This book, unlike the widely used textbook, Traffic and Highway Engineering, serves a different purpose and is intended for a broader audience. Its objective is to provide an overview of transportation from a multi-modal viewpoint rather than

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emphasizing a particular mode in great detail. By placing emphasis on explaining the environment in which transportation operates, this book presents the big picture to assist students in understanding why transportation systems operate as they do and the role

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they play in a global society.
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This volume brings together

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scientific experts in different areas that contribute to the Railway Track & Transportation Engineering challenges, evaluate the State-of-the-Art, identify the shortcomings and opportunities for research and promote the interaction with the industry. In

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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

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and mitigation measures, operations, management and performance of ground transportation, and traffic congestion and safety procedures. This volume is part of the proceedings of the 1st GeoMEast International Congress and

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