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Roger Roess | NYU Tandon School of Engineering

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The definition given is as follows: "Traffic Engineering is that phase of transportation engineering which deals with the planning, geometric design and traffic operations of roads, streets, and ...

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traffic engineering. It 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 traffic engineering approaches. It also includes examples to illustrate the procedures as they are used in practice. The second edition of Traffic Engineering has been revised to include a new chapter on the statistical analysis of data. It also includes the latest practices and procedures; new material on underlying models; a new procedure for initial signal timing; as well as an expanded presentation of signalization and signal analysis. An essential reference book for practicing traffic engineers.

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Since 1950, the Highway Capacity Manual has been a standard used in

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the planning, design, analysis, and operation of virtually any highway traffic facility in the United States. It has also been widely used around the globe and has inspired the development of similar manuals in other countries. This book is Volume II of a series on the conceptual and research origins of the methodologies found in the Highway Capacity Manual. It focuses on the most complex points in a traffic system: signalized and unsignalized intersections, and the concepts and methodologies developed over the years to model their operations. It also includes an overview of the fundamental concepts of capacity and level of service, particularly as applied to intersections. The historical roots of the manual and its contents are important to understanding current methodologies, and improving them in the future. As such, this book is a valuable resource for current and future users of the Highway Capacity Manual, as well as researchers and developers involved in advancing the state-of-the-art in the field.

This textbook provides a fundamental overview of the application of engineering economic principles to transportation infrastructure investments. Basic theory is presented and illustrated with examples specific to the transportation field. It also reviews the history of transportation finance, as well as current methods for funding

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transportation investments in the U.S. Future problems and potential solutions are also discussed and illustrated.

The Wheels That Drove New York tells the fascinating story of how a public transportation system helped transform a small trading community on the southern tip of Manhattan island to a world financial capital that is home to more than 8,000,000 people. From the earliest days of horse-drawn conveyances to the wonders of one of the world's largest and most efficient subways, the story links the developing history of the City itself to the growth and development of its public transit system. Along the way, the key role of played by the inventors, builders, financiers, and managers of the system are highlighted. New York began as a fur trading outpost run by the Dutch West India Company, established after the discovery and exploration of New York Harbor and its great river by Henry Hudson. It was eventually taken over by the British, and the magnificent harbor provided for a growing center of trade. Trade spurred industry, initially those needed to support the shipping industry, later spreading to various products for export. When DeWitt Clinton built the Erie Canal, which linked New York Harbor to the Great Lakes, New York became the center of trade for all products moving into and out of the mid-west. As industry grew, New York became a magnet for immigrants seeking refuge

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in a new land of opportunity. The City's population continued to expand. Both water and land barriers, however, forced virtually the entire population to live south of what is now 14th Street. Densities grew dangerously, and brought both disease and conflict to the poorer quarters of the Five Towns. To expand, the City needed to conquer land and water barriers, primarily with a public transportation system. By the time of the Civil War, the City was at a breaking point. The horse-drawn public conveyances that had provided all of the public transportation services since the 1820's needed to be replaced with something more effective and efficient. First came the elevated railroads, initially powered by steam engines. With the invention of electricity and the electric traction motor, the elevated's were electrified, and a trolley system emerged. Finally, in 1904, the City opened its first subway. From there, the City's growth to northern Manhattan and to the "outer boroughs" of Brooklyn, Queens, and the Bronx exploded. The Wheels That Drove New York takes us through the present day, and discusses the many challenges that the transit system has had to face over the years. It also traces the conversion of the system from fully private operations (through the elevated railways) to the fully public system that exists today, and the problems that this transformation has created along the way.

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Since 1950, the Highway Capacity Manual has been a standard used in the planning, design, analysis, and operation of virtually any highway traffic facility in the United States. It has also been widely used abroad, and has spurred the development of similar manuals in other countries. The twin concepts of capacity and level of service have been developed in the manual, and methodologies have been presented that allow highway traffic facilities to be designed on a common basis, and allow for the analysis of operational quality under various traffic demand scenarios. The manual also addresses related pedestrian, bicycle, and transit issues. This book details the fundamental development of the concepts of capacity and level of service, and of the specific methodologies developed to describe them over a wide range of facility types. The book is comprised of two volumes. Volume 1 (this book) focuses on the development of basic principles, and their application to uninterrupted flow facilities: freeways, multilane highways, and two-lane highways. Weaving, merging, and diverging segments on freeways and multilane highways are also discussed in detail. Volume 2 focuses on interrupted flow facilities: signalized and unsignalized intersections, urban streets and arterials. It is intended to help users of the manual understand how

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concepts, approaches, and specific methodologies were developed, and to understand the underlying principles that each embodies. It is also intended to act as a basic reference for current and future researchers who will continue to develop new and improved capacity analysis methodologies for many years to come.

This book is focused on the discussion of the traffic assignment problem, the mathematical and practical meaning of variables, functions and basic principles. This work gives information about new approaches, methods and algorithms based on original methodological technique, developed by authors in their publications for the past several years, as well as corresponding prospective implementations. The book may be of interest to a wide range of readers, such as civil engineering students, traffic engineers, developers of traffic assignment algorithms etc. The obtained results here are to be used in both practice and theory. This book is devoted to the traffic assignment problem, formulated in a form of nonlinear optimization program. The most efficient solution algorithms related to the problem are based on its structural features and practical meaning rather than on standard nonlinear optimization techniques or approaches. The authors have carefully considered the meaning of the traffic assignment problem for efficient algorithms development.

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Interdisciplinary introduction to transportation engineering serving as a comprehensive text as well as a frequently cited reference for a course in transportation engineering in the Civil Engineering Department.

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