



Transportation Infrastructure Engineering: A Multimodal Integration

By Lester A. Hoel, Nicholas J. Garber, Adel W. Sadek

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Transportation Infrastructure Engineering: A Multimodal 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 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 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 they play in a global society.

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Editorial Review

About the Author

Lester A. Hoel is the L.A. Lacy Distinguished Professor Emeritus of Engineering and the Director of the Center for Transportation Studies at the University of Virginia. He held the Hamilton Professorship in Civil Engineering from 1974-99. From 1974-89 he was Chairman of the Department of Civil Engineering. Previously he was Professor of Civil Engineering and Associate Director, Transportation Research Institute at Carnegie Mellon University and on the faculty at San Diego State University. He also was principal engineer with Wilbur Smith and Associates and visiting professor at the Norwegian Technical University and the University of California at Irvine and a visiting scholar at the University of California at Berkeley.

Nicholas J. Garber is a Professor of Civil Engineering at the University of Virginia where he has been a member of the faculty since September of 1980. Before joining the University of Virginia, Dr. Garber was a Professor of Civil Engineering in the Faculty of Engineering of the University of Sierra Leone, where he was also the Dean of the Faculty of Engineering. At the State University of New York at Buffalo, he played an important role in the development of the graduate program in Transportation Engineering. For several years, he was a design engineer for consulting engineering firms in London, and also worked as an Area Engineer and Assistant Resident Engineer in Sierra Leone.

Dr. Adel Sadek is an Associate Professor in the School of Engineering at the University of Vermont, with a secondary appointment in the Department of Computer Science. His teaching and research interests are in the areas of Transportation Systems Modeling and Simulation, Intelligent Transportation Systems, Computational Intelligence Applications, and Transportation Planning and Infrastructure Management. He has extensive research experience in the application of computer simulation to transportation systems modeling and analysis. Dr. Sadek is the recipient of the 1998 Milton Pilarsky Award for the best dissertation in the field of Transportation Science and Technology and is also a member of the Advanced Technologies Committee of the American Society of Civil Engineers.

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