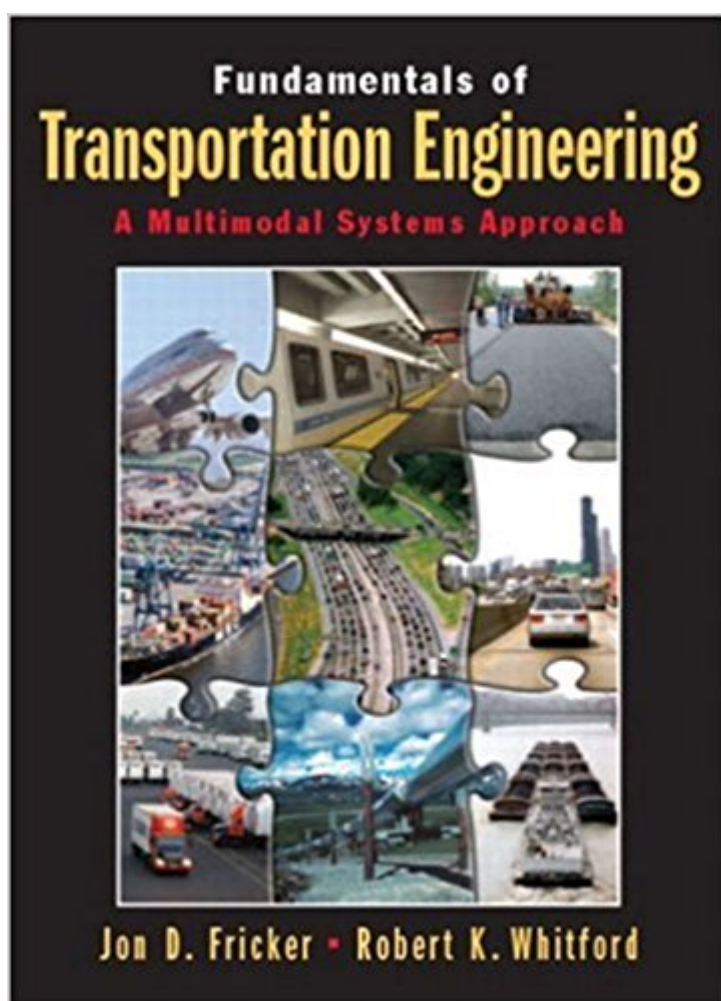


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# Fundamentals Of Transportation Engineering: A Multimodal Systems Approach



## Synopsis

Combining topics that are essential in an introductory course with information that is of interest to those who want to know why certain things in transportation are the way they are, the book provides a strong emphasis of the relationship between the phases of a transportation project. The volume familiarizes readers with the standard terminology and resources involved in transportation engineering, provides realistic scenarios for readers to analyze and offers numerous examples designed to develop problem solving skills. The volume examines transportation basics, traffic flow theory and analysis, highway design for performance, modeling transportation demand and supply, planning and evaluation for decision-making, design of highway for safety, design of intersections for safety and efficiency, pavement design, public mass transportation, air transportation and airports and environmental issues/emerging technologies. For those interested in transportation engineering.

## Book Information

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## Customer Reviews

Fundamentals of Transportation Engineering: A Multimodal Systems Approach is intended for the first course in Transportation Engineering. Combining topics that are essential in an introductory course with information that is of interest to those who want to know why certain things in transportation are the way they are, the text places a strong emphasis on the relationship between the phases of a transportation project. The text familiarizes students with the standard terminology and resources involved in transportation engineering, provides realistic scenarios for students to

analyze. and offers numerous examples designed to develop problem-solving skills. Features: Non-automobile modes addressed extensively: Public transit, air transportation, and freight modes. Purposeful, but flexible sequence of topics. Ongoing case study of a single region called "Mythaca," which shows students the interconnections between many transportation issues. Chapter opening scenarios: Each chapter begins with a scenario designed to orient students to a transportation problem that might confront a transportation engineer. Scenarios, examples, and homework problems based on the extensive experience of the authors. Traditional, standard transportation engineering combined with the needs of future transportation engineering. Special Discussion Boxes: "Think About It" boxes provide students with highlighted topics and concepts to reinforce material.

Prof Robert Whitford holds B.S., M.S. and Ph.D. degrees in electrical engineering from Purdue University. Following graduation in 1955, he worked in the aerospace industry, designing and analyzing Missile and Spacecraft systems at TRW Systems (Redondo Beach, California) for 17 years. The last six years at TRW he served as Operations Manager for Guidance and Control (3 years) and Advanced Electronic Systems (3 years). He then became deeply involved in the systems and design aspects of multimodal transportation while serving 6 years as Deputy Director at what is now the US DOT's Volpe National Transportation Systems Center in Cambridge. He joined the automotive transportation-energy research team at Purdue in 1980. In 1982 he began serving as part-time director of Purdue's Public Policy Center, while teaching large scale systems and freight/logistics courses in both civil and industrial engineering. He became full-time on the Civil Engineering Faculty in 1989. In addition to his research interests highway congestion management, logistics systems, and air transportation, he has taught graduate courses in transportation planning, transportation project evaluation, urban planning, and airport planning and design. He was the coordinator of the capstone civil engineering design course for five years. He retired from the Purdue faculty in January 2002 and now lives in Alaska, working part time for the Alaska Department of Transportation. Prof. Jon Fricker received the S.B.C.E. degree from the Massachusetts Institute of Technology and the M.S.C.E. and Ph.D. degrees from CarnegieMellon University. His degrees all came from civil engineering programs that required a solid grounding in all facets of CE. Since joining Purdue's Civil Engineering faculty in 1980, his principal teaching and research interests have been in transportation planning, public mass transportation, and urban planning. Prof. Fricker's service on the local bus company's Board of Directors and the county's Technical Transportation Committee has been a source of many reality-based problems for

homework and in-class use.

This book has so many errors! It is so outdated, too. The practice problems are unclear, not all information is given, or they mistype the way the bullet points or lettering have to be. All this makes things so much more confusing. We always go ask the professor for help and even he has no idea what the book is asking and has to pull out his solutions manual to see what the author meant. I wish the professor will stop making the students each semester buy this book. It is a waste of money. This book needs to have a major update on its next edition ASAP.

Wasn't very well organized and there are apparently (2) versions floating around with identical ISBN's but different formulas. The teacher had a corrected, 'updated' version that wasn't available to students. The author used several different variables to indicate the same thing, without explaining why they change.

The exercises are very well explained and the book follows a logical order in the chapters explained. The exercises and samples in metric values are very helpful for European students and professors.

This was the textbook used in my transportation class, and I hated it. Many of the homework problems do not provide enough information, nor does the book provide enough guidance. It is true that engineering involves making assumptions and designing on your own, but this textbook was not very good in teaching you where to even begin.

Pros: Thorough exploration of subject matter  
Lots of examples  
Cons: Confusing layout (sections are indistinguishable from examples)  
Buries important equations and variable definitions in the text  
No color, and few pictures besides confusing diagrams  
Homework problems often have arbitrary wording and don't give enough information

This book was used for college course

perfect

This is really a good book.

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