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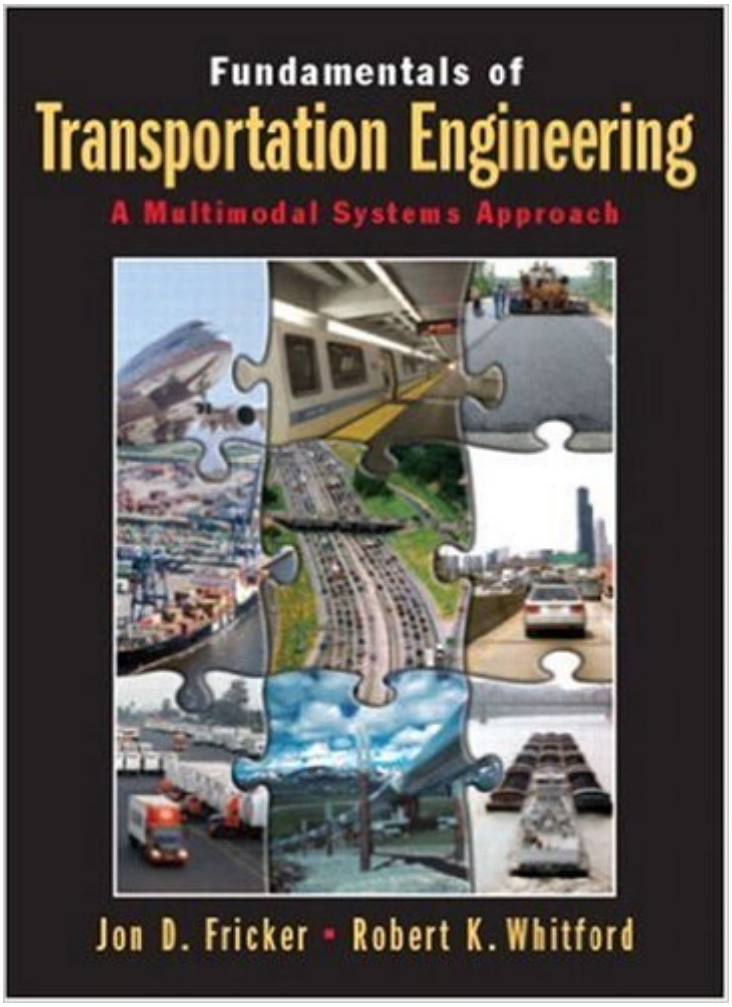
Fundamentals Of Transportation Engineering: A Multimodal Systems Approach



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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

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.

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 It is so outdated, too.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.

Pros:Thorough exploration of subject matterLots of examplesCons:Confusing layout (sections are indistinguishable from examples)Buries important equations and variable definitions in the textNo color, and few pictures besides confusing diagramsHomework problems often have arbitrary wording and don't give enough information

This book was used for college course

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