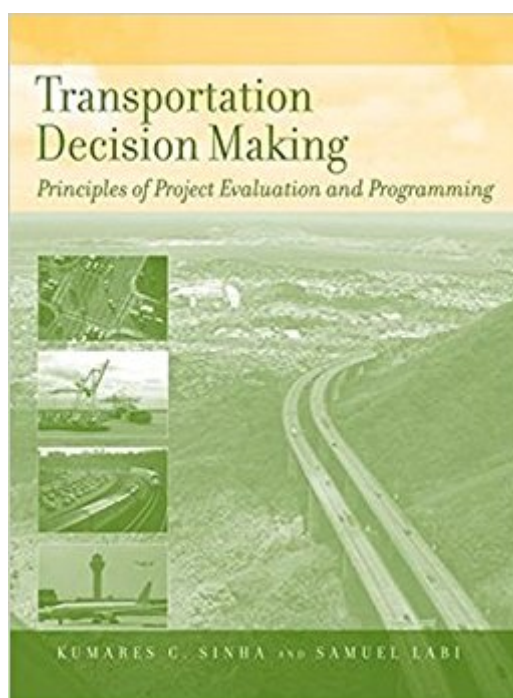


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# Transportation Decision Making: Principles Of Project Evaluation And Programming



## **Synopsis**

This pioneering text provides a holistic approach to decision making in transportation project development and programming, which can help transportation professionals to optimize their investment choices. The authors present a proven set of methodologies for evaluating transportation projects that ensures that all costs and impacts are taken into consideration. The text's logical organization gets readers started with a solid foundation in basic principles and then progressively builds on that foundation. Topics covered include: Developing performance measures for evaluation, estimating travel demand, and costing transportation projects Performing an economic efficiency evaluation that accounts for such factors as travel time, safety, and vehicle operating costs Evaluating a project's impact on economic development and land use as well as its impact on society and culture Assessing a project's environmental impact, including air quality, noise, ecology, water resources, and aesthetics Evaluating alternative projects on the basis of multiple performance criteria Programming transportation investments so that resources can be optimally allocated to meet facility-specific and system-wide goals Each chapter begins with basic definitions and concepts followed by a methodology for impact assessment. Relevant legislation is discussed and available software for performing evaluations is presented. At the end of each chapter, readers are provided resources for detailed investigation of particular topics. These include Internet sites and publications of international and domestic agencies and research institutions. The authors also provide a companion Web site that offers updates, data for analysis, and case histories of project evaluation and decision making. Given that billions of dollars are spent each year on transportation systems in the United States alone, and that there is a need for thorough and rational evaluation and decision making for cost-effective system preservation and improvement, this text should be on the desks of all transportation planners, engineers, and educators. With exercises in every chapter, this text is an ideal coursebook for the subject of transportation systems analysis and evaluation.

## **Book Information**

Hardcover: 576 pages

Publisher: Wiley; 1 edition (May 25, 2007)

Language: English

ISBN-10: 0471747327

ISBN-13: 978-0471747321

Product Dimensions: 8.7 x 1.5 x 11.3 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 15 customer reviews

Best Sellers Rank: #444,881 in Books (See Top 100 in Books) #86 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Transportation #457 in Books > Textbooks > Engineering > Civil Engineering

## Customer Reviews

"Sinha and Labi compile a vast reservoir of knowledge and technique that transportation decision makers might use to identify and evaluate these diverse impacts as part of the decision making process." (Journal of the American Planning Association, February 2009) "I am not aware of any other book covering such a huge variety of practically relevant and qualitative models." (Zentralblatt MATH, 2008) "The book does justice to the richness of the broader topic of decision making, covering the specific areas you would expect and more. Overall, the book is an excellent resourceâ€¦ the book is well-written and organized." (Journal of Transportation Engineering; 12/07)

A guide to effective decision making written just for transportation professionals This pioneering text provides a holistic approach to decision making in transportation project development and programming, which can help transportation professionals to optimize their investment choices. The authors present a proven set of methodologies for evaluating transportation projects that ensures that all costs and impacts are taken into consideration. The text's logical organization gets readers started with a solid foundation in basic principles and then progressively builds on that foundation. Topics covered include: Developing performance measures for evaluation, estimating travel demand, and costing transportation projects Performing an economic efficiency evaluation that accounts for such factors as travel time, safety, and vehicle operating costs Evaluating a project's impact on economic development and land use as well as its impact on society and culture Assessing a project's environmental impact, including air quality, noise, ecology, water resources, and aesthetics Evaluating alternative projects on the basis of multiple performance criteria Programming transportation investments so that resources can be optimally allocated to meet facility-specific and system-wide goals Each chapter begins with basic definitions and concepts followed by a methodology for impact assessment. Relevant legislation is discussed and available software for performing evaluations is presented. At the end of each chapter, readers are provided resources for detailed investigation of particular topics. These include Internet sites and publications of international and domestic agencies and research institutions. The authors also provide a

companion Web site that offers updates, data for analysis, and case histories of project evaluation and decision making. Given that billions of dollars are spent each year on transportation systems in the United States alone, and that there is a need for thorough and rational evaluation and decision making for cost-effective system preservation and improvement, this text should be on the desks of all transportation planners, engineers, and educators. With exercises in every chapter, this text is an ideal coursebook for the subject of transportation systems analysis and evaluation.

I used this book for one of my graduate classes. The book is great. It covers many topics in transportation area and provided lots of references for my research. After I graduated and started work in a consulting company, it served as a "Guide Book". In many cases, when i did not know how to solve a problem, I always could find a solution or a reference in this book. Also, I found one of the authors, Sinha, is a member of National Academy of Engineering (NAE). You know, there only a very few NAE members in transportation area.

This book is very practical, simple, and useful. That being said, the production quality of the book seems almost...cheap. I expected the book to at least be in color, but this book is black and white from cover to cover, there are no illustrative or real world examples, no glossary, and the index is only 3 pages. Also the writing is very dry (boring), and there's just something about the layout that makes it hard to read. I'm working on my second Masters degree so text books are not new to me, but the layout and type-font of this particular text book makes the words just seem to run together on the page. I really appreciate that this book is online on Google books, the four stars I gave it are a direct result of being able to search through the book online. I'm a Logistics Major and we're all about making everything as efficient and accessible as possible.

A must-have reference for infrastructure managers, planners, and investors. Methods to quantify the benefits and costs of highway infrastructure development are demonstrated in detail; should help decision makers to evaluate investments in other modes of transportation, too. Examples and references go beyond any particular country, or continent and should help transportation professionals worldwide. The lists of reference accompanying the chapters are rich and these should help further analysis.

This is an excellent reference for someone in transportation infrastructure field. Examples and references for each chapter contribute with a better understanding of each topic. This is a book

where you will find the techniques to enhance and support a decision making process. It's a friendly user book. I strongly recommend it.

Excellent

Great text for my graduate degree in logistics management. I'll keep for future reference.

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