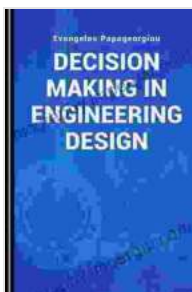


# Concepts, Methods, and Applications in Management and Engineering Design Decision

Decision-making is a critical part of management and engineering design. Every day, managers and engineers are faced with a variety of decisions, from the mundane to the complex. The quality of these decisions can have a significant impact on the success of an organization or project.

This book provides a comprehensive overview of the concepts, methods, and applications in management and engineering design decision-making. It covers a wide range of topics, from the basics of decision theory to advanced techniques for multi-criteria decision-making. The book is written in a clear and concise style, and it is packed with real-world examples and case studies.

This chapter provides an overview of the basic concepts of decision theory. It covers topics such as:



## Data Mining: Concepts, Methods and Applications in Management and Engineering Design (Decision Engineering)

★★★★★ 5 out of 5

Language : English  
File size : 12636 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 330 pages



- The nature of decision-making
- The different types of decisions
- The decision-making process
- The factors that influence decision-making

This chapter introduces some of the most common methods for single-criteria decision-making. These methods include:

- The weighted sum method
- The weighted product method
- The ELECTRE method
- The PROMETHEE method

This chapter introduces some of the most common methods for multi-criteria decision-making. These methods include:

- The analytic hierarchy process (AHP)
- The multi-attribute utility theory (MAUT)
- The outranking methods

This chapter explores the applications of decision theory in management. It covers topics such as:

- Decision-making in strategic planning

- Decision-making in project management
- Decision-making in operations management
- Decision-making in human resource management

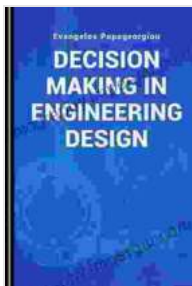
This chapter explores the applications of decision theory in engineering design. It covers topics such as:

- Decision-making in product design
- Decision-making in process design
- Decision-making in system design
- Decision-making in sustainable design

This book provides a comprehensive overview of the concepts, methods, and applications in management and engineering design decision-making. It is an essential resource for anyone who wants to improve their decision-making skills.

### Relevant :

An image of the book's cover. The cover is blue and white, with the title of the book in large letters. The author's name is printed below the title.



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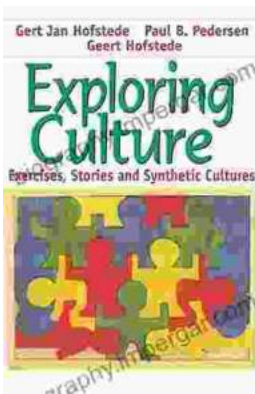
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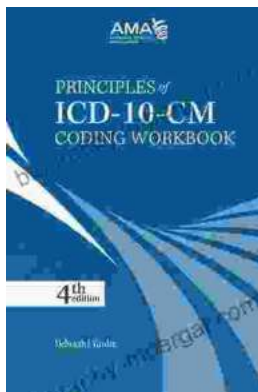
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