Materials and Process Selection for Engineering Design


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- Provides a comprehensive overview of materials and process selection for engineering design.
- Covers a wide range of topics, including materials selection, process selection, and design considerations.
- Includes numerous case studies and real-world examples.

Manufacturing Processes

- Introduces the various manufacturing processes used in industry.
- Discusses the advantages and disadvantages of each process.
- Includes a section on sustainable manufacturing.

Materials Selection

- Discusses the criteria for selecting materials for different applications.
- Includes a section on material properties and their effects on performance.
- Provides guidance on how to choose the right material for a given application.

Process Selection

- Explains the factors that influence process selection.
- Discusses the advantages and disadvantages of different process selection methods.
- Provides guidance on how to select the best process for a given application.

Design

- Discusses the role of design in the selection of materials and processes.
- Includes a section on design for manufacturing.
- Provides guidance on how to design for manufacturability.

Overall, this book is an excellent resource for anyone interested in the selection of materials and processes for engineering design.