
BOOK REVIEW

DESCRIPTION:

Unlike any other text of its kind, "Materials Selection and Applications in Mechanical Engineering" contains complete and in-depth coverage on materials of use, their principles, processing and handling details; along with illustrative examples and sample projects. It clearly depicts the needed topics and gives adequate coverage with ample examples so that ME students can appreciate the relevance of materials to their discipline.

Featuring the basic principles of materials selection for application in various engineering outcomes, the contents of this text follow those of the common first-level introductory course in materials science and engineering. Directed toward mechanical engineering, it introduces the materials commonly used in this branch, along with an exhaustive description of their properties that decide their functional characteristics and selection for use, typical problems encountered during

Keeps chapters short and targeted toward specific topics for easy assimilation.

Contains several unique chapters, including microprocessing, MEMS, problems encountered during use of materials in mechanical components, and NDT procedures used to detect common defects such as cracks, porosity and gas pockets, internal residual stresses, etc.

Features commonly used formulae in mechanical system components in an appendix.

Several tables containing material properties are included throughout the book.

CONTENTS:

Part A : Materials Selection Principles and Application to Mechanical Engineering

Part B : Properties of Interest in Mechanical Components and Systems

Part C : Materials Used in Mechanical

Components and Systems

Part D : Materials Engineering

Part E : Materials in Use in Mechanical Components and Systems

Part F : Selected Materials Selection Projects

Part G : Appendix – Useful Table and Data Important Engineering Formulae Units and Conversion of units Selected ASTM Standards Useful for Materials Selection

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