



**Ebook Directory**  
the best source of ebook

The book was found

# Materials Selection In Mechanical Design, Fifth Edition



## Synopsis

Materials Selection in Mechanical Design, Fifth Edition, describes the procedures for material selection in mechanical design in order to ensure that the most suitable materials for a given application are identified from the full range of materials and section shapes available. Extensively revised for this fifth edition, the book is recognized as one of the leading materials selection texts, providing a unique and innovative resource for students, engineers, and product/industrial designers. Includes significant revisions to chapters on advanced materials selection methods and process selection, with coverage of newer processing developments such as additive manufacturing. Contains a broad scope of new material classes covered in the text with expanded data tables that include a wide range of functional materials such as piezoelectric, magnetostrictive, magneto-caloric, and thermo-electric materials. Presents improved pedagogy, such as new worked examples throughout the text and additional end-of-chapter exercises (moved from an appendix to the relevant chapters) to aid in student learning and to keep the book fresh for instructors through multiple semesters. The Forces for Change chapter has been re-written to outline the links between materials and sustainable design.

## Book Information

Paperback: 660 pages

Publisher: Butterworth-Heinemann; 5 edition (January 2, 2017)

Language: English

ISBN-10: 0081005997

ISBN-13: 978-0081005996

Product Dimensions: 7.5 x 1.3 x 9.2 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #28,657 in Books (See Top 100 in Books) #23 in Books > Textbooks > Engineering > Civil Engineering #32 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science #49 in Books > Textbooks > Engineering > Mechanical Engineering

## Customer Reviews

Royal Society Research Professor Emeritus at Cambridge University and Former Visiting Professor of Design at the Royal College of Art, London, UK. Mike Ashby is sole or lead author of several of Elsevier's top selling engineering textbooks, including Materials and Design: The Art and

Science of Material Selection in Product Design, Materials Selection in Mechanical Design, Materials and the Environment, and Materials: Engineering, Science, Processing and Design. He is also coauthor of the books Engineering Materials 1&2, and Nanomaterials, Nanotechnologies and Design.

fascinating. The consistency of using the same type of graph throughout reduces the amount of time needed to find your answer. The problems all seem relevant to subject and deliver practical uses for said property

[Download to continue reading...](#)

Materials Selection in Mechanical Design, Fifth Edition Code Check Plumbing & Mechanical 4th Edition: An Illustrated Guide to the Plumbing and Mechanical Codes (Code Check Plumbing & Mechanical: An Illustrated Guide) Shigley's Mechanical Engineering Design (McGraw-Hill Series in Mechanical Engineering) The Mechanical Design Process (McGraw-Hill Series in Mechanical Engineering) Geometric Dimensioning and Tolerancing for Mechanical Design 2/E (Mechanical Engineering) The Mechanical Design Process (Mechanical Engineering) Engineering Materials 3: Materials Failure Analysis: Case Studies and Design Implications (International Series on Materials Science and Technology) (v. 3) Water Treatment Plant Design, Fifth Edition (Mechanical Engineering) Failure of Materials in Mechanical Design: Analysis, Prediction, Prevention, 2nd Edition The Selection: The Selection, Book 1 Happily Ever After: Companion to the Selection Series (The Selection Novella) Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Principles And Practice of Mechanical Ventilation, Third Edition (Tobin, Principles and Practice of Mechanical Ventilation) Barron's Mechanical Aptitude and Spatial Relations Test, 3rd Edition (Barron's Mechanical Aptitude & Spatial Relations Test) Materials North American Edition w/Online Testing: Materials - North American Edition, Second Edition: engineering, science, processing and design Mechanical Costs with Rsmeans Data (Means Mechanical Cost Data) Master The Mechanical Aptitude and Spatial Relations Test (Mechanical Aptitude and Spatial Relations Tests) Practice Problems for the Mechanical Engineering PE Exam, 13th Ed (Comprehensive Practice for the Mechanical Pe Exam) Bearings and Lubrication: A Mechanical Designers Workbook (McGraw-Hill Mechanical Designers Workbook Series) Computer Organization and Design MIPS Edition, Fifth Edition: The Hardware/Software Interface (The Morgan Kaufmann Series in Computer Architecture and Design)

Contact Us

DMCA

Privacy

FAQ & Help