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# 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 "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. "Forces for Change" chapter has been re-written to outline the links between materials and sustainable design.

## Book Information

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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

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