



Materials 2/e with Online Testing, Second Edition: engineering, science, processing and design (with Elsevier Online Testing)

Michael F. Ashby, Hugh Shercliff, David Cebon

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This is the ultimate materials engineering text and resource for students developing skills and understanding of materials properties and selection for engineering applications. Written by world class authors, it takes a unique design led-approach which is broader in scope than other texts, thereby meeting the curriculum needs of a wide variety of courses in the materials and design field, from Introduction to Materials Science and Engineering to Engineering Materials, Materials Processing and Materials in Design. This new edition retains its design-led focus and strong emphasis on visual communication while expanding its treatment of crystallography and phase diagrams and transformations to fully meet the needs of instructors teaching a first-year course in materials. Additional teaching resources have been added, including an interactive online materials science tutorial and online testing and assessment program with algorithmic exercises that allow one question template to become hundreds of different questions. The book is fully linked with the leading materials software package as used in over 600 academic institutions worldwide as well as numerous government and commercial engineering departments.

* Design-led approach motivates and engages students in the study of materials science and engineering through real-life case studies and illustrative applications

* Highly visual full color graphics facilitate understanding of materials concepts and properties

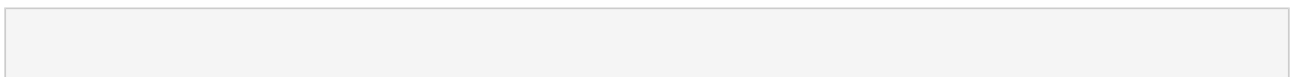
* Chapters on materials selection and design are integrated with chapters on materials fundamentals, enabling students to see how specific fundamentals can be important to the design process

* For instructors, a solutions manual, lecture slides, online image bank and materials selection charts for use in class handouts or lecture presentations are available at <http://textbooks.elsevier.com>

* Links with the Cambridge Engineering Selector (CES EduPack), the powerful materials selection software. See www.grantadesign.com for information

NEW TO THIS EDITION:

- "Guided Learning" sections on crystallography, phase diagrams and phase transformations enhance students' learning of these key foundation topics
- Revised and expanded chapters on durability, and processing for materials properties
- More than 50 new worked examples placed throughout the text
- Included online testing and assessment component helps students assess their knowledge of the topics - Email textbooks@elsevier.com for details
- Link to interactive online materials science tutorials updated with new self test questions



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