



Engineering Materials 1, Third Edition: An Introduction to Properties, Applications and Design (v. 1)

By D R H Jones, Michael F. Ashby

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Widely adopted around the world, this is a core materials science and mechanical engineering text. *Engineering Materials 1* gives a broad introduction to the properties of materials used in engineering applications. With each chapter corresponding to one lecture, it provides a complete introductory course in engineering materials for students with no previous background in the subject. Ashby & Jones have an established, successful track record in developing understanding of the properties of materials and how they perform in reality.

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Editorial Review

Review

"Ashby (emeritus) and Jones (both Cambridge U.) have made considerable changes to the 2005 third edition (the first edition was published in 1980), among them new illustrative photographs, references to reliable websites, and worked examples to many of the chapters. The textbook is for a first course on materials for undergraduate engineering students, holding up one corner of a curriculum that includes design, mechanics, and structures. It covers price and availability; the elastic moduli; yield strength, tensile strength, and ductility; fast fracture, brittle fracture, and toughness; fatigue failure; creep deformation and fracture; oxidation and corrosion; and friction, abrasion, and wear."--**Reference & Research Book News** October 2012

From the Back Cover

Engineering Materials 1 gives a broad introduction to the properties of materials used in a wide range of engineering applications. It provides a complete course in engineering materials for students with no previous background in the subject.

The third edition has been revised, expanded and improved throughout. Chapters remain arranged in groups dealing with particular classes of properties and the coverage of the book progresses through property definitions, measurement, underlying principles and material selection data. The focus throughout is on the development of knowledge that will enable readers to understand and design materials with better properties.

New and key features include:

- Detailed case studies with practical applications
- Five new chapters covering aspects of fracture, fatigue and design with materials
- Enhanced design and applications emphasis throughout
- Expanded coverage of non-metallic materials, environmental impact, fractography and corrosion
- Many more examples and exercises for class and homework use

About the Author

Dr. Jones is co-author of *Engineering Materials 1* and *2* and lead author for the 3rd and 4th editions. He was the founder editor of Elsevier's journal *Engineering Failure Analysis*, and founder chair of Elsevier's International Conference on Engineering Failure Analysis series. His research interests are in materials engineering, and along with serving as President of Christ's College at the University of Cambridge he now works internationally advising major companies and legal firms on failures of large steel structures.

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.

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