



# **Engineering Materials 2: An Introduction to Microstructures, Processing and Design: v. 2 (International Series on Materials Science and Technology)**

By *Michael F. Ashby, D. R. H. Jones*

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## **Engineering Materials 2: An Introduction to Microstructures, Processing and Design: v. 2 (International Series on Materials Science and Technology)**

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Provides a thorough explanation of the basic properties of materials; of how these can be controlled by processing; of how materials are formed, joined and finished; and of the chain of reasoning that leads to a successful choice of material for a particular application. The materials covered are grouped into four classes: metals, ceramics, polymers and composites. Each class is studied in turn, identifying the families of materials in the class, the microstructural features, the processes or treatments used to obtain a particular structure and their design applications. The text is supplemented by practical case studies and example problems with answers, and a valuable programmed learning course on phase diagrams.

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## **Bibliography**

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## **Editorial Review**

Review

...unique and interesting...It contains good illustrations, useful information in tabular form, and references for background reading and for further reading...The book is highly recommended as a textbook for a second course in engineering materials. It is also recommended as a reference book for practicing engineers and for libraries.

Applied Mechanics Review, Volume 40, Number 8

An excellent approach to the subject with a good selection of case studies to aid understanding of theory.

M R Cochrane, Department of Materials Technology, Brunel University

A quick review of the book gives an excellent impression of clarity, detail and copious quantities of case study material. I will recommend it to Materials Science students, for lecture and tutorial work, and to service taught engineers. I would estimate that, as with Engineering Materials you will enjoy high sales for this volume.

Dr M P Ansell, School of Materials Science, University of Bath

We have used volume 1 as a course text for a long while and it has been most successful. But we have long felt the need for a second volume to cover the topics which are now included in the new book. The approach adopted is most suitable to our needs, and we can expect that both volumes will be extensively used by our students.

Dr B E Powell, Department of Mechanical Engineering, Portsmouth Polytechnic

I have found the text most stimulating and interesting to read. It is undoubtedly far superior to any other textbooks aimed at this particular type of student. I shall be strongly recommending its purchase particularly in view of the lively case studies.

Dr D G McCartney, Department of Materials Science and Engineering, University of Liverpool

An extremely well written text book incorporating the latest concepts in Materials Engineering. The interdisciplinarity of the book is excellent.

Professor Pradeep Rohatgi, University of Wisconsin

Delightful work. Great insight. Very well written both as a textbook and as a reference source in interdisciplinary research.

D Krajcinovic, University of Illinois at Chicago

An excellent text with good engineering content. Admirable value for money.

D L Atherton, Queens University

Excellent books...

Gopal S Reuankar, St Ambrose University, Davenport

Excellent reference books. Used to generate lectures. Very practical approach.

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Edward L Widener, P. E., Purdue University

They are admirable books: the provision of 'Aids and Demonstrations' in Volume 1 to assist class teaching is extremely helpful. It is helpful to have answers for the problems.

Professor A G Atkins, Department of Engineering, The University of Reading

A most useful book for engineering students and complements the first text by these authors.

Dr R T Derricott, School of Engineering, Wolverhampton Polytechnic

This book is worth its price and it is only a matter of time for it to become yet another bestseller from these

authors. It is one of those which one can say without any hyperbole that multiple copies of it should be in every engineering library.

#### Journal of Mechanical Working Technology

A most useful book for engineering students which complements the first text by these authors.

#### Dr Derricott, Wolverhampton Polytechnic

This book may be strongly recommended for addition to the personal collection of those who value good reading in materials science technology and design. It must certainly be added to technical libraries. The Pergamon Press must be richly congratulated for bringing out this book by two of the most accomplished material scientists of today.

#### Journal of Electrochem. Soc. India

No one has realized the importance of studying natural materials more than Ashby - what a debt materials sciences owes to this outstanding scientist. His two textbooks written with Jones, *Engineering Materials 1* and *2*, are still amongst the best available.

#### British Book News

#### From the Publisher

Materials are grouped into four classes: Metals, Ceramics, Polymers and Composites, and each are examined in turn. The chapters are arranged in groups, with a group of chapters to describe each of the four classes of materials. Each group first introduces the major families of materials that go to make up each materials class. The main microstructural features of the class are then outlined and the reader is shown how to process or treat them to get the structures (properties) that are desired. Each group of chapters is illustrated by case studies designed to help the reader understand the basic material. This book has been written as a second level course for engineering students. It provides a concise introduction to the microstructures and processing of materials and shows how these are related to the properties required in engineering design.

#### From the Back Cover

*Engineering Materials 2* is one of the leading self-contained course texts for more advanced students of materials science and mechanical engineering, and is the companion to the renowned introductory text *Engineering Materials 1: An Introduction to Properties, Applications & Design*. This book provides a detailed understanding of the fundamental properties of engineering materials: how they are controlled by processing, then formed, joined and finished, and how all of these factors influence the selection and design of materials in real-world engineering applications. New material and features in the updated third edition include a new chapter on materials failures, expanded design coverage, and additional exercises and examples with more real design situations.

- Best-selling materials properties textbook with a world-renowned author team
- New student-friendly format, with enhanced pedagogy including more case studies, worked examples and student questions

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### **Noemi Burns:**

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### **Pandora Rice:**

Is it an individual who having spare time subsequently spend it whole day by simply watching television programs or just resting on the bed? Do you need something totally new? This Engineering Materials 2: An Introduction to Microstructures, Processing and Design: v. 2 (International Series on Materials Science and Technology) can be the answer, oh how comes? A book you know. You are so out of date, spending your free time by reading in this completely new era is common not a geek activity. So what these textbooks have than the others?

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