



Engineering Materials Volume 2, Second Edition: An Introduction to Microstructures, Processing and Design (International Series on Materials Science and Technology)

By D R H Jones, Michael F. Ashby

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Materials are evolving faster today than at any time in history. As a consequence the engineer must be more aware of materials and their potential than ever before. In comparing the properties of competing materials with precision involves an understanding of the basic properties of materials, how they are controlled by processing, formed, joined and finished and of the chain of reasoning that leads to a successful choice. This book will provide the reader with this understanding.

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 of all 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 wanted. 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.

Unique approach to the subject

World-renowned author team

Improved layout and format

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Editorial Review

Review

"Good. Concise and easy to follow; very good case studies."

"Recommended for 3rd and 4th year Degree students."

From the Publisher

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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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