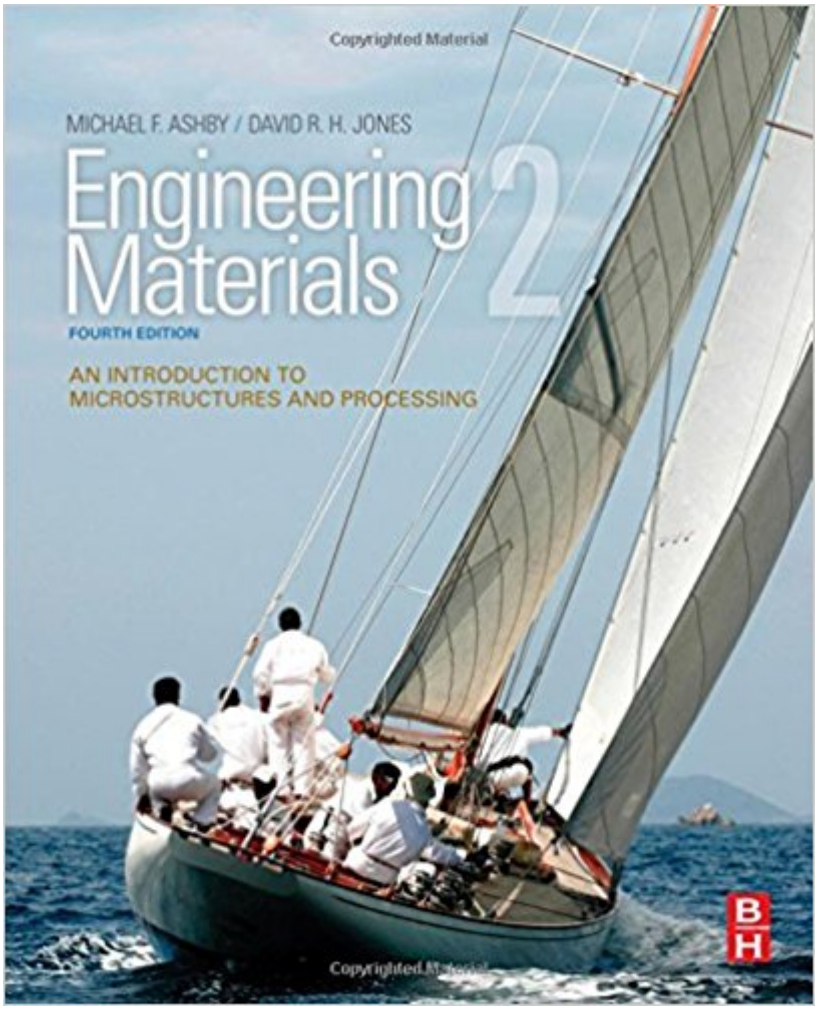
Engineering Materials 2, Fourth Edition: An Introduction To Microstructures And Processing (International Series On Materials Science And Technology)

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Synopsis

Engineering Materials 2, Fourth Edition, is one of the leading self-contained texts for more advanced students of materials science and mechanical engineering. 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. Each chapter is designed to provide the content of one 50-minute lecture. This updated version includes new case studies, more worked examples; links to Google Earth, websites, and video clips; and a companion site with access to instructors' resources: solution manual, image bank of figures from the book, and a section of interactive materials science tutorials. Other changes include an increased emphasis on the relationship between structure, processing, and properties, and the integration of the popular tutorial on phase diagrams into the main text. The book is perfect as a stand-alone text for an advanced course in engineering materials or a second text with its companion Engineering Materials 1: An Introduction to Properties, Applications, and Design, Fourth Edition in a two-semester course or sequence. Many new or revised applications-based case studies and examplesTreatment of phase diagrams integrated within the main textIncreased emphasis on the relationship between structure, processing and properties, in both conventional and innovative materialsFrequent worked examples â " to consolidate, develop, and challengeMany new photographs and links to Google Earth, websites, and video clipsAccompanying companion site with access to instructorsâ ™ resources, including a suite of interactive materials science tutorials, a solutions manual, and an image bank of figures from the book

Book Information

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Customer Reviews

Engineering Materials 2 is one of the leading self-contained texts for more advanced students of materials science and mechanical engineering. The book provides a concise introduction to the microstructures and processing of materials and shows how these are related to the properties required in engineering design. As with previous editions, each chapter is designed to provide the content of one 50-minute lecture. The fourth edition has been updated to include new case studies, more worked examples, links to relevant websites and video clips. Other changes include an increased emphasis on the relationship between structure, processing and properties, and integration of the popular tutorial on phase diagrams into the main text. Engineering Materials 2, Fourth Edition is perfect as a stand-alone text for an advanced course in engineering materials or a second text with its companion Engineering Materials 1: An Introduction to Properties, Applications, and Design, Fourth Edition in a two-semester course or sequence. New and Key Features Include: Many new or revised applications-based case studies and examplesTreatment of phase diagrams integrated within the main textIncreased emphasis on the relationship between structure, processing and properties, in both conventional and innovative materialsFrequent worked examples â “ to consolidate, develop, and challengeMany new photographs and links to Google Earth, websites, and video clipsAccompanying companion site with access to instructorsâ ™ resources, including a suite of interactive materials science tutorials, a solutions manual, and an image bank of figures from the book

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, UKMike Ashby is sole or lead author of several of Elsevierâ ™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.

Good condition of the book. But it was a little dirty.

excellent

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