



# Engineering Materials: An Introduction to Microstructures and Processing

By Michael F Ashby, D R H Jones, M F Ashby

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2013.

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Materials: An Introduction to Microstructures and Processing is a comprehensive introduction to microstructures and processing of materials for engineering students and other related courses.

It is composed of chapters that are arranged into four sections: metals, ceramics, polymers, and composites, which are the distinct generic classes of materials. The materials are presented in an easy-to-read style, while establishing the main concepts and providing details on how processing, microstructures, and physicochemical characters are interrelated. The book emphasizes the relationship between structure, processing and properties, of both conventional and innovative materials. It provides detailed discussions of the different aspects of transformations, including interface kinetics, nucleation and growth, and constitutional undercooling. The book also presents new case studies and examples to illustrate, develop and consolidate the different topics. The text features new photographs and 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. The text aims to provide detailed discussions about engineering materials to...



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