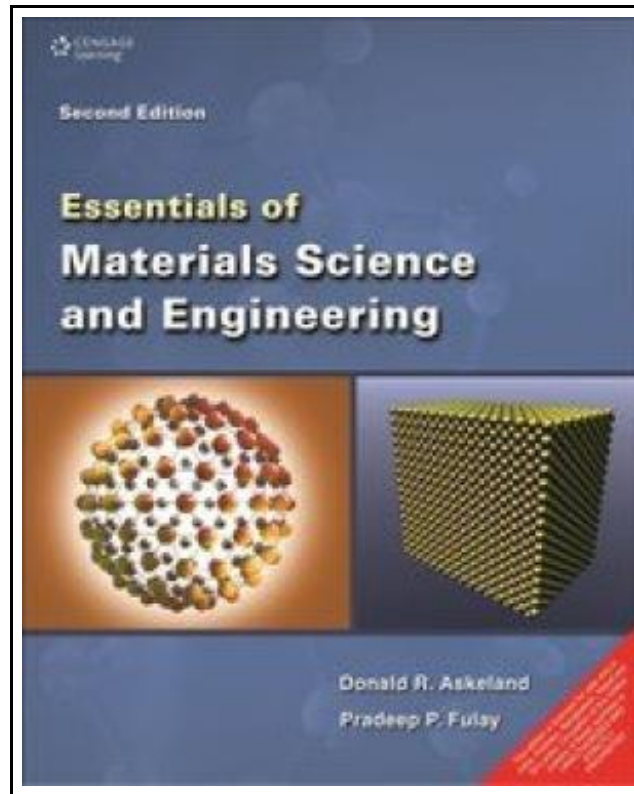


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ESSENTIALS OF MATERIALS SCIENCE AND ENGINEERING (SECOND EDITION)



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Cengage Engineering/Cengage Learning India, 2013. Softcover. Book Condition: New. 2nd edition. This text provides students with a solid understanding of the relationship between the structure, processing, and properties of materials. Authors Donald Askeland and Pradeep Fulay teach the fundamental concepts of atomic structure and materials behaviors and clearly link them to the "materials" issues that students will have to deal with when they enter the industry or graduate school (e.g. design of structures, ion of materials, or materials failures). While presenting fundamental concepts and linking them to practical applications, the authors emphasize the necessary basics without overwhelming the students with too much of the underlying chemistry or physics. The book covers fundamentals in an integrated approach that emphasizes applications of new technologies that engineered materials enable. New and interdisciplinary developments in materials field such as nanomaterials, smart materials, micro-electro-mechanical (MEMS) systems, and biomaterials are also discussed. Tables of Contents:- Introduction to Materials Science and Engineering Introduction / What is Materials Science and Engineering? / Classification of Materials / Functional Classification of Materials / Classification of Materials Based on Structure / Environmental and Other Effects / Materials Design and Selection / Summary / Glossary / Problems 2. Atomic Structure Introduction / The Structure of Materials: Technological Relevance / The Structure of the Atom / The Electronic Structure of the Atom / The Periodic Table / Atomic Bonding / Binding Energy and Interatomic Spacing / Summary / Glossary / Problems 3. Atomic and Ionic Arrangements Introduction / Short-Range Order Versus Long-Range Order / Amorphous Materials: Principles and Technological Applications / Lattice, Unit Cells, Basis, and Crystal Structure / Allotropic or Polymorphic Transformations / Points, Directions, and Planes in the Unit Cell / Interstitial Sites / Crystal Structures of Ionic Materials / Covalent Structures / Diffraction Techniques for Crystal Structure Analysis / Summary...



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