



# Science and Engineering of Materials

*Askeland Donald*

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The science and engineering of materials describes the foundations of materials science as predicated upon the structure-processing-properties paradigm with the goal of providing fundamental science, so that the reader may understand basic materials phenomena, and synergistic engineering to prepare a wide range of students for competent professional practice. The wealth of material provided in this book provides a general overview, concentrates on mechanical behavior, and focuses on physical properties of materials. This book will prove to be a useful reference also for advanced courses in manufacturing, materials, design, or materials selection. Features: 1.enhanced pedagogy includes newer facets such as insertion of bullets, italicization of words, and emphasis through sectioning the important sequencing to help the reader to retain the key aspects. 2.each chapter has more than 80 solved and unsolved problems, with answers provided to select unsolved problems. 3.chapter openings and summaries to give the student an overview and recap of the topics and ideas covered in each chapter. 4."have you ever wondered?" questions designed to pique the interest of the reader relate the material covered in the chapter to its real-world application. 5.a glossary of key words and definitions at the end of each chapter. Table of contents: introduction to materials science and engineering 2. Atomic structure 3. Atomic and ionic arrangements 4. Imperfections in the atomic and ionic arrangements 5. Atom and ion movements in materials 6. Thermal properties of materials 7. Principles of solidification 8

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