

Elements of Materials Science and Engineering



SIXTH EDITION

Lawrence H. Van Vlack

Elements Of Materials Science

L. H. van Vlack



Elements Of Materials Science:

Elements Of Material Science And Engineering, 6/E Van Vlack, 1959-09 This Classic Textbook Elements Of Materials Science And Engineering Is The Sixth In A Series Of Texts That Have Pioneered In The Educational Approach To Materials Science Engineering And Have Literally Brought The Evolving Concept Of The Discipline To Over One Million Students Around The World

Elements of Materials Science and Engineering Lawrence H. Van Vlack, 1989 This classic textbook Elements of Materials Science and Engineering is the sixth in a series of texts that have pioneered in the educational approach to materials science engineering and have literally brought the evolving concept of the discipline to over one million students around the world The major modification to this edition has been in the attention to the commonality found within the materials field in which structures and properties are considered generically for all materials rather than categorically by material classes metals polymers ceramics and semiconductors This pedagogical change reflects the growing coherence and overall importance of materials science engineering and thereby establishes a sound foundation for later courses dealing in greater detail with specific kinds of materials The sixth edition represents a definite advance in providing a fresh access to modern materials science engineering now portrayed as an integrated field instead of merely the sum of its parts

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Engineering Alloys Flake C. Campbell, 2008-01-01 This practical reference provides thorough and systematic coverage on both basic metallurgy and the practical engineering aspects of metallic material selection and application

Introduction to Materials Science Jean-Pierre Mercier, Gérald Zambelli, Wilfried Kurz, 2002 The approach of this concise but comprehensive introduction covering all major classes of materials is right for not just materials science students and professionals but also for those in engineering physics and chemistry or other related disciplines The characteristics of all main classes of materials metals polymers and ceramics are explained with reference to real world examples So each class of material is described then its properties are explained with illustrative examples from the leading edge of application This edition contains new material on nanomaterials and nanostructures and includes a study of degradation and corrosion and a presentation of the main organic composite materials Illustrative examples include carbon fibres the silicon crystal metallic glasses and diamond films Applications explored include ultra light aircraft contact lenses dental materials single crystal blades for gas turbines use of lasers in the automotive industry cables for cable cars permanent magnets and molecular electronic devices covers latest materials including nanomaterials and nanostructures real world case studies bring the theory to life and illustrate the latest in good design all major classes of materials are covered in this concise yet comprehensive volume

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