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paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 220 Publisher: Chemical Industry Pub. Date: 2011-08-01 version 1 by Mr Chan is. Wang Wei. Liu Chunyan so write the Introduction to Materials Science and Engineering (bilingual). Introduction to Materials Science and Engineering is a bilingual materials to the existing Introduction to Materials Science and Engineering program criteria. combined with Chinese teaching materials. a reference to foreign materials and in accordance with the original teaching of the domestic situation and the latest developments in materials science content appropriate for the integration of teaching materials. The book is divided into nine chapters, the specific contents include: Introduction, the structure of solid materials. commonly used engineering materials (polymers. metals. ceramics and composite materials). mechanical properties. composition. processing technology and potential applications. commonly used engineering chemical properties of materials (corrosion resistance) and physical properties (electrical. magnetic. thermal and optical properties). and new materials (bio-materials. nano materials and smart materials) of the introduction and so on. Introduction to Materials Science and Engineering (bilingual) for universities and related materials science and engineering professionals and students to use, also available in materials science and engineering research, development and management of the officers. Contents: Chapter 1 Introduction1Learning Objectives11.1 Historical Perspective11.2 What is Materials Science and Engineering21.3 Why Study Materials Science and Engineering51.4 Classification of Materials51.5 Advanced Materials91.6 Modern Materials' Needs10References11Chapter 2 The Structure of Crystalline Solids13Learning Objectives132.1 Atomic Structure and Interatomic Bonding132.1.1 Fundamental Concepts142.1.2 Bonding Forces and Energies142.1.3 Atomic Bonding in Solids162.2 Crystal Structures222.2.1 Fundamental Concepts222.2.2 Metallic Crystal Structures and Crystal Systems232.2.3 Crystallographic Points. Directions. and Planes302.2.4 Crystalline and Noncrystalline Materials372.3 Imperfections in Solids402.3.1 Point Defects in Metals402.3.2 Dislocations-Linear Defects432.3.3 Interfacial Defects442.3.4 Bulk or Volume Defects46References48Chapter 3 Polymer Materials49Learning Objectives493.1 Polymer Structures493.1.1 Introduction493.1.2 Fundamental Concepts493.1.3...



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