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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 257 Publisher: Machinery Industry Pub. Date :2011-09-01 version 1. Concise Guide to Semiconductor Physics in a clear and concise manner a thorough introduction to the basics of semiconductor physics and new development. including semiconductor material structure and band structure. impurities and defects. carrier distribution and the statistical law of motion. non-thermal equilibrium semiconductors. PN junction. metal-semiconductor contacts. heterojunctions. semiconductor. semiconductor surface and the main effect. A Concise Guide to Semiconductor Physics for colleges electronics and microelectronics science and technology professionals. also available to graduate students. and similar engineering and technical personnel to read and reference. Professor Chen Zhiming responsible for the draft plan and book system. Contents: Preface Introduction Chapter 1. the semiconductor material structure and the semiconductor band structure 1.1 crystal structure of atoms and electronegativity of elements 1.1.1 and 1.1.2 of atoms covalently bonding with tetrahedral structure 1.1.3 1.2 The crystal structure of the major semiconductor semiconductor electronic state and energy level with 1.2.1 and 1.2.2 can be zero with a potential field with periodic potential in the electronic state of 1.2.3 with the band filling and hole conductivity of the crystal 1.3 The concept of the semiconductor in the effective mass of carriers 1.3.1 near the band extremum $E(k)$ function 1.3.2 the effective mass of electrons and holes in semiconductors 1.3.3 anisotropic carrier effective mass of 1.4 impurities and defects in semiconductors 1.4.1 impurities level facilities. and its energy level by the main deep-level impurity 1.4.3 1.4.2 defect facilities. subject to the primary role of the energy levels of 1.5 and a typical semiconductor band structure 1.5.1 The basic content of the band structure and characterization 1.5.2 semiconductor band structure of the major...



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