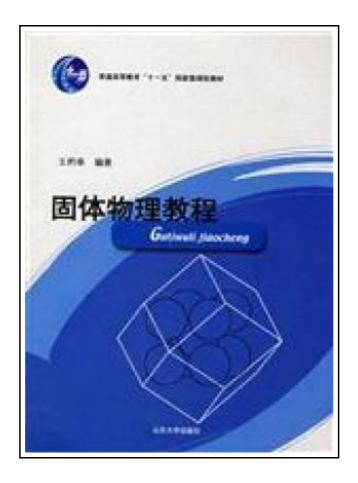
# Solid state physics tutorial



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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: 239 Publisher: Shandong University Press Pub. Date: 2008-6-6. This book discusses the basic theory of solid state physics. the specific content: crystal structure and X-ray diffraction. crystal binding. lattice vibrations. band theory and metal electronic theory. the book summarizes the author's long-term research and teaching practice. many problems to take a new approach are given for each chapter are quite mathematical thinking questions and exercises. This book can be used as physical science and engineering colleges. applied physics. materials science based undergraduate teaching materials. but also as a graduate student of engineering and technical personnel and other reference books. Contents: Chapter 1.1 crystal structure of close-packed crystal in common 1.2 Philippines 1.3 Bragg cell space lattice of the original crystal lattice 1.4 1.5 column index crystal plane reciprocal lattice symmetry of the crystal space 1.6 1.7 1.8 Classification of the crystal lattice structure of X 1.9 atomic scattering factors diffraction of light reflection problem Exercises Chapter crystal with atomic electronegativity 2.1 2.2 2.3 lens with the type of binding force and binding energy with molecular force 2.5 2.4 2.6 covalent binding of atoms and ions with ionic radius 2.8 2.7 stress 2.9 Hooke's law elastic strain elastic dynamic equation Porth exam exercises Chapter crystal lattice vibrations and thermal properties of one-dimensional lattice vibration 3.1 3.2 3.3 three-dimensional lattice vibrations normal vibration phonon spectra of 3.4 Experimental Determination of lattice vibrations longwave approximation method 3.5 3.6 3.7 lattice vibration theory of heat capacity of the anharmonic lattice vibration effects of the crystal thermodynamic functions 3.8 Exercises Chapter thinking questions defects in the crystal of the basic types of crystal defects 4.1 4.2 4.3 the nature of defects in...

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