

## Solid State Physics By M A Wahab

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Solid-state physics is the study of rigid matter, or solids, through methods such as quantum mechanics, crystallography, electromagnetism, and metallurgy. It is the largest branch of condensed matter physics. Solid-state physics studies how the large-scale properties of solid materials result from their atomic-scale properties. Thus, solid-state physics forms a theoretical basis of materials science. It also has direct applications, for example in the technology of transistors and semiconductors

**Solid-state physics - Wikipedia**  
INSTRUCTOR: M. S. Dresselhaus. STAFF: Oded Rabin -- Head TA; Room 13-3025 oded@mgm.mit.edu; Marcie Black -- TA assistant; Room 13-3041 mrb@mgm.mit.edu; Yu-Ming Lin -- TA assistant; Room 13-3037 yming@mgm.mit.edu; Laura Doughty -- Support; Room 13-3005 laura@mgm.mit.edu. COURSE TEXTS

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M. A. Wahab. Narosa Publishing House, 1999 - Science - 704 pages. 0 Reviews. This text presents a comprehensive study of various topics of solid state physics for the undergraduate and postgraduate...

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M.A. Wahab is the author of Solid State Physics (3.84 avg rating, 258 ratings, 28 reviews, published 2005), Numerical Problems in Solid State Physics (3....

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4.5 TheMagneticSusceptibilityforConductionElectrons . . . . . 61 5 Magneto-OscillatoryandOtherEffectsAssociatedwithLandauLevels 62

**SOLID STATE PHYSICS PART III Magnetic Properties of Solids**  
Solid-state electronics means semiconductor electronics; electronic equipment using semiconductor devices such as transistors, diodes and integrated circuits (ICs). The term is also used for devices in which semiconductor electronics which have no moving parts replace devices with moving parts, such as the solid-state relay in which transistor switches are used in place of a moving-arm ...

**Solid-state electronics - Wikipedia**  
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Solid State Physics MCQs. 1. Iron has a Body-Centered Cubic (BCC) structure with atomic radius 0.123 Å. Find the lattice constant. A) 0 B) 4.587 Å

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Solid state physics is, in its broadest sense, quite simply the study of solids. Solid State physicists study magnetic, electric, and structural properties as well as other aspects of solids. In recent years, the field of solid state physics is often combined with the study of liquids under the broader heading, condensed matter physics.