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Solid State Physics, a comprehensive study for the undergraduate and postgraduate students of pure and applied sciences, and engineering disciplines is divided into eighteen chapters. The first seven chapters deal with structure related aspects such as lattice and crystal structures, bonding, packing and diffusion of atoms followed by imperfections and lattice vibrations.

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Solid State Physics: Structure and Properties of Materials

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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 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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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 has not changed since its inception in 1955, and continues to provide a “mechanism... whereby investigators and students can readily obtain a balanced view of the whole field”. What has changed, is the field and its extent. Its boundaries have gone well beyond what was once, traditionally, understood as solid state.

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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.

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