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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

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to that branch of physics

that deals with the study

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through methods such

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Solid carbon has many allotropic modifications. It means that substances with different chemical and physical properties can be built from one and the same atoms arranged in different

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~~Physicists describe a
new type of amorphous
solid bodies~~

South Korean
researchers have
developed a new type of
electrode structure for
all-solid-state secondary
batteries. If this
technology is adopted,
the energy density of the
batteries could increase

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Structure And

~~Researchers develop
new electrode structure
for all solid ...~~

Special aspects of solid
state chemistry Close
relationship to solid
state physics and
materials science

Importance of structural
chemistry •

Knowledge of several
structure types •

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complete introduction
to solid state physics. It
has many many
chapters

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Lecture Notes for Solid State
Physics

(3rd Year Course) ...

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

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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~~

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~~Wikipedia~~

In condensed matter physics and crystallography, the static structure factor is a mathematical description of how a material scatters incident radiation. The structure factor is a critical tool in the interpretation of scattering patterns obtained in X-ray,

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electron and neutron diffraction experiments. Confusingly, there are two different mathematical expressions in use, both called 'structure factor'. One is usually written S $\{\ \displaystyle S\}$; it is more generally valid, and relates the observ

~~Structure factor—~~

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In solid state physics one usually encounters lattices which exhibit a discrete translational symmetry.

Properties

~~Lattice, Basis and
Crystal | Physics in a
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He made important contributions to several fields of physics, including solid state physics, and received

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Nobel Prize in

Chemistry for his studies
of molecular structure
through the diffraction
of ...

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Figure

$\backslash(\backslash\text{PageIndex}\{3\}\backslash)$:

Packing structures for
solids from left to right:

(a) simple cubic, (b)

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body-centered cubic (BCC), and (c) face-centered cubic (FCC). Each crystal structure minimizes the energy of the system. The energy of the sodium ions is not entirely due to attractive forces between oppositely charged ions.

~~9.4: Bonding in Crystalline Solids~~
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The states are defined in terms of interatomic distance, atomic arrangement and atomic ionization in matter. In solid state of matter, the arrangement of atoms forms different structure of materials.

The structure of materials is the key deciding factor for different kind of properties, such as

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thermal, electrical,

optical, magnetic,

dielectric etc.

Electron

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