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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

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materials science. It also has direct applications, for example in the technology of transistors and semiconductors

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In condensed matter physics and crystallography, the static structure factor is a mathematical description of how a



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material scatters incident radiation. The structure factor is a critical tool in the interpretation of scattering patterns obtained in X-ray, electron and neutron diffraction experiments. Confusingly, there are two different mathematical expressions in use, both called 'structure factor'. One is usually written  $S$ ; it is more

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~~Structure factor - Wikipedia~~

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

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Nutshell

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Figure \(\backslash\PageIndex{3}\backslash\): Packing structures for solids from left to right: (a) simple cubic, (b) 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

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## 9.4: Bonding in Crystalline Solids – Physics LibreTexts

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forms different structure of materials. The structure of materials is the key deciding factor for different kind of properties, such as thermal, electrical, optical, magnetic, dielectric etc.

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