

LECTURES ON SOLID STATE PHYSICS

Matter is observable in everyday life in four states: solid, liquid, gas and plasma. The states are defined in terms of interatomic distance, atomic arrangement and atomic ionization in matter. Solid State Physics is the study of rigid matter, or solids, through various methods like quantum mechanics, crystallography etc. It is the largest branch of Condensed Matter Physics. The study of the solid state encompasses the understanding of the organizational, mechanical, magnetic and electrical properties of the substance as well as the forces that bind the units into the solid state. Thus it is concerned with crystal structure. The potential applications of solid state physics are in semiconductor, superconductor and ferromagnetism etc.



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ISBN 978-93-88381-56-7



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