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Understanding solid state physics problems and solutions

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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

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large-scale properties of solid materials result from their atomic-scale properties. Thus, solid-state physics forms a theoretical basis of materials science.

Solid-state physics - Wikipedia

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It presents a quasi-systematic investigation of the influence of dimensionality changes, from 1D to 3D, via surfaces and 2D quantum wells, on the physical properties of solids. The aim of this book is to teach solid state physics through the use of problems and solutions giving orders of magnitude and answers to simple questions of this field.

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Solid State physics|| Thermal conductivity and Resistivity|| Umklapp process

The problems in this book can be used as homework assignments in an introductory or advanced course on solid state physics for undergraduate or graduate students.It can also serve as a desirable reference book to solve typical problems and grasp mathematical techniques in solid state physics.

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