

Introduction To Solid State Physics Book By Charles Kittel

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since its inception 50 years ago electron paramagnetic resonance epr also called esr or emr has become a major tool in diverse fields ranging from biology and chemistry to solid state physics and materials science this important book includes personal descriptions of early experiments by pioneers who laid the foundations for the field perspectives on the state of the art and glimpses of future opportunities it presents a broad view of the foundations of epr and its applications and will therefore appeal to scientists in many fields even the expert will find here history not previously recorded and provocative views of future directions

an advanced text devoted exclusively to pair correlations in nuclei

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a modern presentation of theoretical solid state physics that builds directly upon kittel s introduction to solid state physics treats phonon electron and magnon fields culminating in the bcs theory of superconductivity considers fermi surfaces and electron wave functions and develops the group theoretical description of brillouin zones applies correlation functions to time dependent effects in solids with an introduction to green s functions with 110 problems the text is well suited for the classroom or for self instruction

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