

Introduction To Solid State Physics Book By Charles Kittel

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kittel's introduction to solid state physics global edition has been the standard solid state physics text for physics majors since the publication of its first edition over 60 years ago the emphasis in the book has always been on physics rather than formal mathematics this book is written with the goal that it is accessible to undergraduate students and consistently teachable with each new edition the author has attempted to add important new developments in the field without impacting its inherent content coverage this global edition offers the advantage of expanded end of chapter problem sets

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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

an annotated timeline of operations research an informal history recounts the evolution of operations research or as a new science the science of decision making arising from the urgent operational issues of world war ii the philosophy and methodology of or has permeated the resolution of decision problems in business industry and government the timeline chronicles the history of or in the form of self contained expository entries each entry presents a concise explanation of the events and people under discussion and provides key sources where further

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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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