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Introduction to the Relativistic String Theory
Resonance Effects of Excitons and Electrons

Magnetic Resonance and Its Applications
Theory and Interpretation of Magnetic Resonance Spectra
Ferromagnetic Resonance
Nuclear Science Abstracts

Resonance Physics Formula Sheet For Iit ***OMB No. 0456915772880 edited by***

HARRISON YOUNG

Supersymmetry and Trace Formulae World Scientific
Acknowledged as the "founding father" and world renowned expert on electron cyclotron resonance sources Richard Geller has produced a unique book devoted to the physics and technicalities of electron cyclotron resonance sources. Electron Cyclotron Resonance Ion Sources and ECR Plasmas provides a primer on electron cyclotron phenomena in ion sour

Engineering Physics - Part A

Springer Science & Business Media
The unique properties of ferromagnetic resonance (FMR) in magnetodielectric solids are widely used to create highly efficient analog information processing devices in the microwave range. Such devices include filters, delay lines, phase shifters, non-reciprocal and non-linear devices, and others. This book examines magnetic resonance and ferromagnetic resonance under a wide variety of conditions to study physical properties of magnetodielectric materials. The authors explore the properties in various mediums that significantly complicate magnetic resonance and provide a summary of related advances obtained during the last two decades. It also covers the emergence of new branches of the spectrum and anomalous dependencies on the magnetic field. Key Features: Reviews basic principles of the science of crystallographic symmetry and anisotropic solid-state properties Addresses the inhomogeneous nature of the distribution of the magnetization in the material being studied Explains the mathematic methods used in the calculation of anisotropic solids of a solid Provides the reader with a path to substitute electromagnetic waves when magnetostatic apparatus prove insufficient
Plasma Physics for Astrophysics Springer Science & Business Media
This book discusses the development of Fano-based techniques and reveals the characteristic properties of various wave processes by studying interference phenomena. It explains that the interaction of discrete (localized) states with a continuum of propagation modes leads to Fano interference effects in transmission, and explores novel coherent effects such as bound states in the continuum accompanied by collapse of Fano resonance. Originating in atomic physics, Fano resonances have become one of the most appealing phenomena of wave scattering in optics, microwaves, and terahertz techniques. The generation of extremely strong and confined fields at a deep subwavelength scale, far beyond the diffraction limit, plays a

central role in modern plasmonics, magnonics, and in photonic and metamaterial structures. Fano resonance effects take advantage of the coupling of these bound states with a continuum of radiative electromagnetic waves. With their unique physical properties and unusual combination of classical and quantum structures, Fano resonances have an application potential in a wide range of fields, from telecommunication to ultrasensitive biosensing, medical instrumentation and data storage. Including contributions by international experts and covering the essential aspects of Fano-resonance effects, including theory, modeling and design, proven and potential applications in practical devices, fabrication, characterization and measurement, this book enables readers to acquire the multifaceted understanding required for these multidisciplinary challenges.

Mathematical Theory of Scattering Resonances

World Scientific
• Chapter wise & Topic wise presentation for ease of learning • Quick Review for in depth study • Mind maps for clarity of concepts • All MCQs with explanation against the correct option • Some important questions developed by 'Oswaal Panel' of experts • Previous Year's Questions Fully Solved • Complete Latest NCERT Textbook & Intext Questions Fully Solved • Quick Response (QR Codes) for Quick Revision on your Mobile Phones / Tablets • Expert Advice how to score more suggestion and ideas shared • Some commonly made errors highlight the most common and unidentified mistakes made by students at all levels
The Cambridge Handbook of Physics Formulas CRC Press
Reactor Design Physics, Volume 4: Resonance Absorption in Nuclear Reactors provides a systematic and detailed exposition of the theory of resonance absorption in nuclear reactors. This book is composed of eight chapters, and begins with a brief historical review of the subject. The second chapter deals with the resonance absorption in homogeneous media and with an alternative method of obtaining some of the formula, while the third chapter considers the natural and Doppler broadened fine shapes, as well as explicit formula for resonance absorption in homogeneous media. The succeeding chapters discuss some results of transport theory necessary for the study of the resonance absorption problem in heterogeneous media and the estimation of the errors introduced by the various simplifying assumptions. The final chapters examine the special topics of the Dancoff effect and the estimation of absorption in unresolved resonances. This book will prove useful to nuclear physicists and design engineers.

Resonance Absorption in Nuclear Reactors

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Dual Resonance Models and SuperstringsWorld Scientific
The Langevin Equation Springer Science & Business Media
The Principles of Nuclear Magnetism
Theory of Resonances Oswaal Books and Learning Private Limited
Papers presented at the Conference on Magnetism and Magnetic Materials, Phoenix, Arizona, November 13-16, 1961.
Resonance Absorption in Nuclear Reactors Springer Science & Business Media

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Nuclear Power Reactor Instrumentation Systems Handbook

Thakur Publication Private Limited

Reactor Design Physics, Volume 4: Resonance Absorption in Nuclear Reactors provides a systematic and detailed exposition of the theory of resonance absorption in nuclear reactors. This book is composed of eight chapters, and begins with a brief historical review of the subject. The second chapter deals with the resonance absorption in homogeneous media and with an alternative method of obtaining some of the formula, while the third chapter considers the natural and Doppler broadened fine shapes, as well as explicit formula for resonance absorption in homogeneous media. The succeeding chapters ...

Quantum Mechanics

Springer

Ferromagnetic Resonance: The Phenomenon of Resonant Absorption of a High - Frequency Magnetic Field in Ferromagnetic Substances is a collection of papers on the basic theory of ferromagnetic resonance. The book discusses the theory of ferromagnetic resonance in detail and the investigations and treatments of problems in this theory. The text consists of nine chapters covering such topics as the linear approximation of ferromagnetic resonance; non-linear processes occurring during ferromagnetic resonance in ferromagnetic semiconductor; the spin-wave theory of ferro- and antiferromagnetism and its application to the problem of ferromagnetic resonance; and the theory of the line width of the resonance absorption of the energy of a UHF field in ferromagnetics. Physicists will find the book very useful.

Muon Spin Rotation, Relaxation, and Resonance CRC Press

A non-linear wave is one of the fundamental objects of nature. They are inherent to aerodynamics and hydrodynamics, solid state physics and plasma physics, optics and field theory, chemistry reaction kinetics and population dynamics, nuclear physics and gravity. All non-linear waves can be divided into two parts: dispersive waves and dissipative ones. The history of investigation of these waves has been lasting about two centuries. In 1834 J. S. Russell discovered the extraordinary type of waves without the dispersive broadening. In 1965 N. J. Zabusky and M. D. Kruskal found that the Korteweg-de Vries equation has solutions of the solitary wave form. This solitary wave demonstrates the particle-like properties, i. e. , stability under propagation and the elastic interaction under collision of the solitary waves. These waves were named solitons. In succeeding years there has been a great deal of progress in understanding of soliton nature. Now solitons have become the primary components in many important problems of nonlinear wave dynamics. It should be noted that non-linear optics is the field, where all soliton features are exhibited to a great extent. This book had been designed as the tutorial to the theory of non-linear waves in optics. The first version was projected as the book covering all the problems in this field, both analytical and numerical methods, and results as well. However, it became

evident in the process of work that this was not a real task.
Introduction to the Relativistic String Theory Springer Science & Business Media
This book presents a systematic and detailed account of the classical and quantum theory of the relativistic string and some of its modifications. Main attention is paid to the first-quantized string theory with possible applications to the string models of hadrons as well as to the superstring approach to unifications of all the fundamental interactions in the elementary particle physics and to the “cosmic” strings. Some new aspects are provided such as the consideration of the string in an external electromagnetic field and in the space-time of constant curvature (the de Sitter universe), the relativistic string loaded by point-like masses and the Cartan method for describing the classical string dynamics. The relativistic membranes and p-branes are also considered briefly. The book is sufficiently self-contained and can be considered as an introduction to this new and fast developing branch of the elementary particle physics. Contents:Action Functional For a Relativistic String and Lagrangian FormalismHamiltonian Formalism and QuantizationString with Masses at Ends. Charged StringGeometrical Approach in the Relativistic String TheoryConnection of the Relativistic String with Field Models. Generalization of the String Approach to the Elementary Particle Physics Readership: High energy physicists and mathematical physicists. Keywords:String Theory;Hadronic String;Flux Tube Model;Quark Confinement;String with Massive Ends;Meson String Model;Barion String Model;Nambu-Goto String;Rigid String;Polyakov String;Geometrical Theory of the String;Open String in Electromagnetic Field
Resonance Effects of Excitons and Electrons Springer
"\berall's work in acoustic and electromagnetic scattering has evoked much interest, in the US as well as abroad, because of its possible practical applications, as well as the theoretical understanding. Many collaborators have been inspired by it, and have now contributed to this volume. The book is an excellent contribution to the literature of Acoustics and Wave Propagation. Professor Guran is to be congratulated for organizing and editing this volume." Prof. Hans A Bethe Noble Laureate Cornell University, 1996
Magnetic Resonance and Its Applications Cambridge University Press
The book is devoted to the description of the fundamentals in the area of magnetic resonance. The book covers two domains: radiospectroscopy and quantum radioelectronics. Radiospectroscopy comprises nuclear magnetic resonance , electron paramagnetic resonance, nuclear quadrupolar resonance, and some other phenomena. The radiospectroscopic methods are widely used for obtaining the information on internal (nano, micro and macro) structure of objects. Quantum radioelectronics, which was developed on the basis of radiospectroscopic methods, deals with processes in quantum amplifiers, generators and magnetometers. We do not know analogues of the book presented. The book implies a few levels of the general consideration of phenomena, that can be useful for different groups of readers (students, PhD students, scientists from other scientific branches: physics, chemistry, physical chemistry, biochemistry, biology and medicine).
Theory and Interpretation of Magnetic Resonance Spectra Oxford

University Press
Vol. 5, no. 4, July-Aug. 1950, commemorates the 15th anniversary of the discovery of the Meson theory.
Ferromagnetic Resonance Princeton University Press
This book presents the various types of resonance effects on excitons, biexcitons and the local electronic centers (LEC) in solids, such as paramagnetic and paraelectric resonances on excitons, exciton acoustic resonance at intra- and interband transitions, radio-optical double resonance on excitons, hole-nuclear double resonance on localized biexcitons, ENDOR and acoustic ENDOR on LEC. The criteria for the generation of coherent photons, phonons and magnons by excitons are explained. The interactions of excitons and biexcitons with paramagnetic centers and nuclear spins, the indirect interaction between the PC through a field of excitons as well as the quasienergy spectrum of excitons and spin systems are discussed. It is proved that the interaction of paramagnetic centers with excitons increases the spin relaxation rate of paramagnetic centers in comparison with the case of their interaction with free carriers. The giant magneto-optical effects in semi-magnetic semiconductors are theoretically interpreted. In recent years, a new perspective has been added to these systems and their interactions: They can be used for storing and processing information in the form of quantum bits (qubits), the building blocks of quantum computers. The basics of this emerging technology are explained and examples of demonstration-type quantum computers based on localized spins in solids are discussed.
Nuclear Science Abstracts CRC Press
Scattering resonances generalize bound states/eigenvalues for systems in which energy can scatter to infinity. A typical resonance has a rate of oscillation (just as a bound state does) and a rate of decay. Although the notion is intrinsically dynamical, an elegant mathematical formulation comes from considering meromorphic continuations of Green's functions. The poles of these meromorphic continuations capture physical information by identifying the rate of oscillation with the real part of a pole and the rate of decay with its imaginary part. An example from mathematics is given by the zeros of the Riemann zeta function: they are, essentially, the resonances of the Laplacian on the modular surface. The Riemann hypothesis then states that the decay rates for the modular surface are all either or . An example from physics is given by quasi-normal modes of black holes which appear in long-time asymptotics of gravitational waves. This book concentrates mostly on the simplest case of scattering by compactly supported potentials but provides pointers to modern literature where more general cases are studied. It also presents a recent approach to the study of resonances on asymptotically hyperbolic manifolds. The last two chapters are devoted to semiclassical methods in the study of resonances.
Proceedings of the Seventh Conference on Magnetism and Magnetic Materials Dual Resonance Models and Superstrings
The neutron as one of the basic building blocks of matter plays a major role in both fundamental physics and applications. Volume I/16 presents an up-to-date collection of neutron data for neutron energies up to 20 MeV, with emphasis on energies in the keV range or below. Subvolume I/16B is a compilation of all known

neutron resonance parameters of nuclei. The amount of data is so large that only the most important and recent data for each isotope are printed in the book, while on the accompanying CD-ROM the complete sets of resonance parameter, also those for higher energies, can be found for each isotope.

Acoustic Interactions with Submerged Elastic Structures

American Mathematical Soc.
This book is devoted primarily to the various kinds of resonant nonlinear in teractions of light with two-level (or, in many cases, multilevel) systems. The interactions can involve one-photon as well as multiphoton processes in which some combinations of frequencies of participating photons are close to tran sitions of atoms or molecules (e.g., we consider stimulated Raman scattering (SRS) as a resonant interaction). This approach involves a broad spectrum of problems. Discussion of some of the basic phenomena as well as the pertinent theory could be found, for instance, in such well-known books as the ones due to N. Bloembergen; S.A. Akhmanov and R.V. Khokhlov; L. Allen and J.H. Eberly, and to V.M. Fain and Ya.1. Khanin. The book "Quantum Electronics" by A. Yariv could serve as an introductory guide to the subject. Thus, some of the basic material in the present book will already be well known to the reader who is an expert in the field. There are, for instance, general density matrix equations; two-level model and basic effects associated with this model, such as saturation of one-photon absorption and Raby oscillations; some basic multiphoton processes such as two-photon absorption, SRS, etc.

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