

Reactor Physics in the Resonance and Thermal Regions. Volume II: Resonance Absorption

Goodjohn, A. J., & G. C. Pomraning

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Reactor Physics In The Resonance Volume 3

John S. Glasby



Reactor Physics In The Resonance Volume 3:

Nuclear Science Abstracts ,1974 **Energy Research Abstracts** ,1987 Solid State Nuclear Track Detection S. A. Durrani,R. K. Bull,2013-10-22 Solid State Nuclear Track Detection Principles Methods and Applications is the second book written by the authors after Nuclear Tracks in Solids Principles and Applications The book is meant as an introduction to the subject solid state of nuclear track detection The text covers the interactions of charged particles with matter the nature of the charged particle track the methodology and geometry of track etching thermal fading of latent damage trails on tracks the use of dielectric track recorders in particle identification radiation dosimetry and solid state nuclear track detection instrumentation The book also covers fission track dating and the application of track detectors and its future direction The selection is recommended for newcomers to the field of solid state nuclear track detection and its research those who wish to acquire a basic knowledge of the techniques of the discipline and those who wish to gain a general view of the present status of the subject Government-wide Index to Federal Research & Development Reports ,1967-05 *Scientific and Technical Aerospace Reports* ,1979 *Enriched Uranium Processing* Finis S. Patton,1963 **Wave Scattering from Statistically Rough Surfaces** F. G. Bass,I. M. Fuks,2013-10-22 Wave Scattering from Statistically Rough Surfaces discusses the complications in radio physics and hydro acoustics in relation to wave transmission under settings seen in nature Some of the topics that are covered include radar and sonar the effect of variations in topographic relief or ocean waves on the transmission of radio and sound waves the reproduction of radio waves from the lower layers of the ionosphere and the oscillations of signals within the earth ionosphere waveguide The book begins with some fundamental idea of wave transmission theory and the theory of random processes as used to rough surfaces and to wave fields This discussion is followed by an analysis of the average fields of sound and electromagnetic waves A section on spatial correlation characteristics in the approximation of small perturbations is then given Another chapter of the text explains the Kirchhoff method The book will provide useful information to physicists mechanical engineer students and researchers in the field of acoustics Reactor Technology ,1969 *Flare Stars* G. A. Gurzadyan,2013-10-22 Flare Stars covers the significant progress in photoelectric photographic and spectral observations of flare stars Flare star is a variable star that can undergo unpredictable dramatic increases in brightness for a few minutes believed to be due to extremely intense flares This book is composed of 16 chapters and begins with an overview of flare stars and the hypothesis of infrared photon transformation The succeeding chapters deal with the inverse Compton Effect X ray radiation and the theory of the transition radiation and its importance to the T Tauri type stars and peculiar objects These topics are followed by analysis of the photometric and colorimetric flare data based on the fast electron hypothesis Other chapters consider the theory of the chromophore of flare stars and the general laws for the behavior of flare stars in stellar association and for T Tauri type stars The remaining chapters explore the observational data that have shed light on the problems of radio emission and flare dynamics These

chapters also describe the great cosmogonic importance of stellar flares particularly for understanding the nature and the true character of energy sources within the stars This book will be of great value to astronomers and researchers Plasma Electrodynamics A. I. Akhiezer, I. A. Akhiezer, R. V. Polovin, 2017-03-22 Plasma Electrodynamics Volume 1 Linear Theory is a seven chapter book that begins with a description of the general methods of describing plasma particularly kinetic and hydrodynamic methods Chapter 2 discusses the linear theory of magneto hydrodynamic waves Chapter 3 describes the non linear magneto hydrodynamic waves both simple waves and shock waves Subsequent chapters explain the high frequency oscillations in an unmagnetized plasma oscillations of a plasma in a magnetic field and interaction between charged particle beams and a plasma The last chapter details the oscillations of a partially ionized plasma The Nebular Variables John S. Glasby, 2013-10-22 The Nebular Variables focuses on the nebular variables and their characteristics Discussions are organized by type of nebular variable namely RW Aurigae stars T Orionis stars T Tauri stars and peculiar nebular objects Topics range from light variations of the stars to their spectroscopic and physical characteristics spatial distribution interaction with nebulosity and evolutionary features This volume is divided into four sections and consists of 25 chapters the first of which provides general information on nebular variables including their stellar associations and their classification into three distinct groups RW Aurigae T Orionis and T Tauri variables These three groups of nebular variables are examined in more detail in the chapters that follow in terms of their light variations spatial distribution interaction with nebulosity and spectroscopic physical and evolutionary characteristics Visual and photoelectric light curves mass loss determined spectroscopically luminosities and stellar radii are considered The book also explores the possibility that some of the nebulae associated with certain nebular variables have evolved from a protoplanetary disc of material consisting of both gas and solid matter Peculiar nebular variables such as the long period variable R Aquarii Herbig Haro objects symbiotic variables and infrared stars are analyzed as well This book is written primarily for students and teachers of astronomy *Mechanisms of Speech Recognition* W. A. Ainsworth, 2014-05-18 Mechanisms of Speech Recognition explores the mechanisms underlying speech recognition Topics covered include the auditory system speech production auditory psychophysics speech synthesis and analysis vowel and consonant recognition and perception of prosodic features and of distorted speech Automatic speech recognition and models of speech recognition are also given consideration This volume consists of 11 chapters and begins with an overview of speech recognition communication and production More specifically it examines the way in which the organs of the vocal apparatus are employed to transform a message consisting of a string of linguistic units such as words or phonemes into a wave of continuous sounds which are recognized as speech The auditory system and its parts are then described from the ears to the organ of Corti and nerve cells The chapters that follow focus on the behavior of the hearing system the various techniques of analyzing speech sounds and speech synthesizers such as vocoders The mechanisms underlying the recognition of vowels and consonants are also described along with the physical parameters of the speech

wave which signal the prosody of an utterance the effects of distortions in the speech wave on speech perception and tools used in automatic speech recognition The book concludes with an evaluation of models of speech recognition This book will be of interest to phoneticians linguists physiologists psychologists and physicists A Survey of Hidden-Variables Theories F. J. Belinfante, 2014-05-17 A Survey of Hidden Variables Theories is a three part book on the hidden variable theories referred in this book as theories of the first kind Part I reviews the motives in developing different types of hidden variables theories The quest for determinism led to theories of the first kind the quest for theories that look like causal theories when applied to spatially separated systems that interacted in the past led to theories of the second kind Parts II and III further describe the theories of the first kind and second kind respectively This book is written to make the literature on hidden variables comprehensible to those who are confused by the original papers with their controversies and to average reader of physics papers **Optics** J. P. Mathieu, 2015-08-11 Optics Parts 1 and 2 covers electromagnetic optics and quantum optics The first part of the book examines the various of the important properties common to all electromagnetic radiation This part also studies electromagnetic waves electromagnetic optics of transparent isotropic and anisotropic media diffraction and two wave and multi wave interference The polarization states of light the velocity of light and the special theory of relativity are also examined in this part The second part is devoted to quantum optics specifically discussing the classical molecular theory of optical phenomena and the quantization of radiant energy and of energy in atoms This part also looks into topics such as wave mechanics atomic and molecular spectra and spectrometry This book will be beneficial to those interested in studying optics including students of physics *Power Reactor Technology and Reactor Fuel Processing* ,1968 **Subject Guide to Books in Print** ,1991 **Mechanics** T. T. Taylor, 2016-10-13 Mechanics Classical and Quantum is a 13 chapter book that begins by explaining the Lagrangian and Hamiltonian formulation of mechanics The Hamilton Jacobi theory historical background of the quantum theory and wave mechanics are then described Subsequent chapters discuss the time independent Schr dinger equation and some of its applications the operators observables and the quantization of a physical system the significance of expectation values and the concept of measurement in quantum mechanics The matrix mechanics and the hydrogenic atom an atom in which one electron moves under the influence of a nucleus of charge that to a very good approximation can be thought of as a point are also presented This book will be very useful to students studying this field of interest Index to Conferences Relating to Nuclear Science Willie E. Clark, Doris H. McGinnis, 1968 Bibliography of Mass Spectroscopy Literature for 1970 ,1972 Physics Briefs ,1980

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