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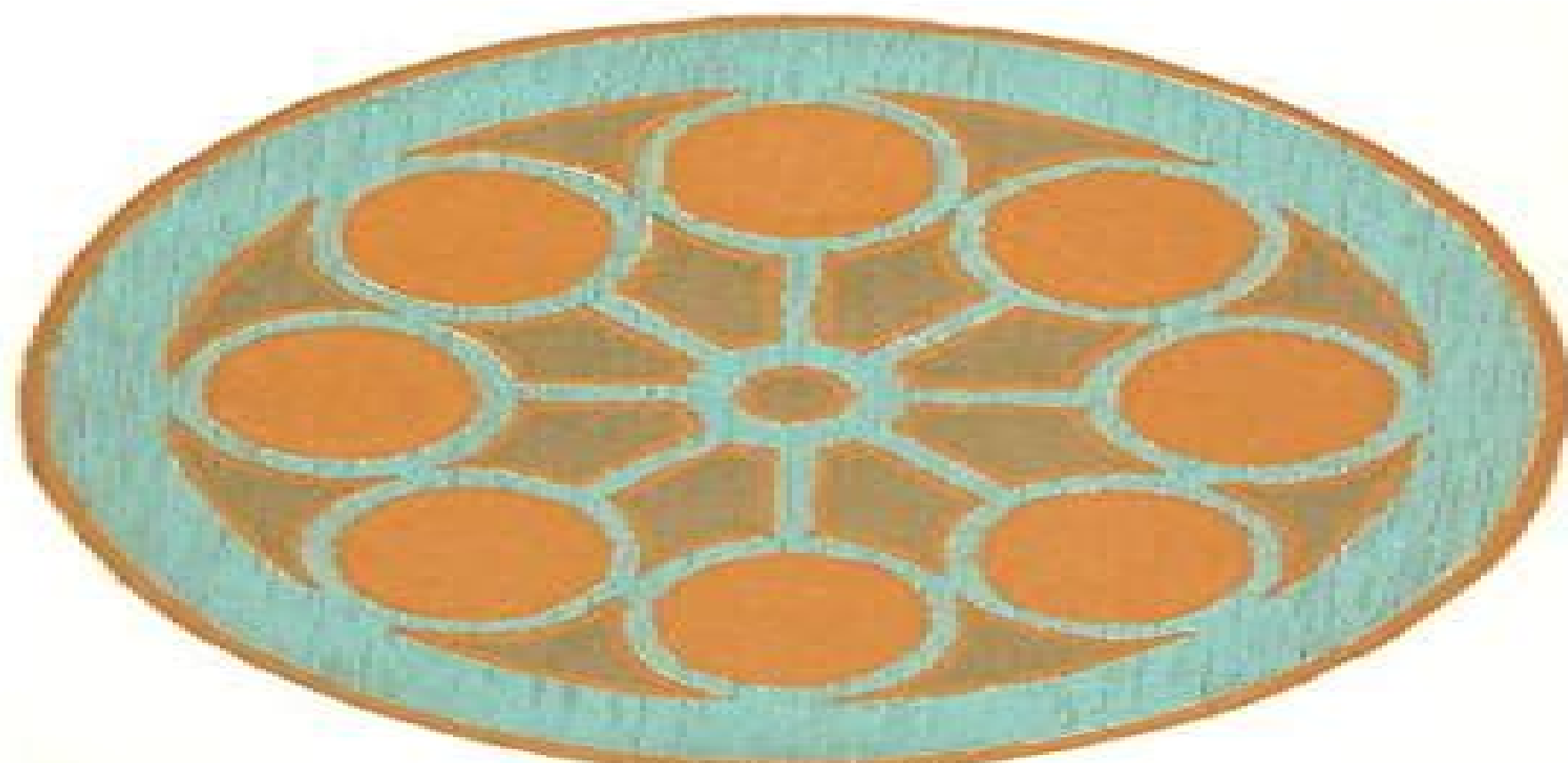
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Maser Amplifiers And Oscillators Quantum Electronics

Vol 2

Y. Takahashi



Maser Amplifiers And Oscillators Quantum Electronics Vol 2:

Quantum Electronics Vol 2 V. M. Fain, Ya. I. Khanin, 1969 **Quantum electronics, volume 2: Maser amplifiers and oscillators** V. M. Fain, 1967 **Quantum Electronics** J.H. Sanders, 1969 Quantum Electronics: Maser amplifiers and oscillators Benjamin Fain, I. A. Khanin, 1969 **Quantum Electronics** V. M. Fain, Ya. I. Khanin, 2016-04-20 Quantum Electronics Volume 2 Maser Amplifiers and Oscillators deals with the experimental and theoretical aspects of maser amplifiers and oscillators which are based on the principles of quantum electronics It shows how the concepts and equations used in quantum electronics follow from the basic principles of theoretical physics Comprised of three chapters this volume begins with a discussion on the elements of the theory of quantum oscillators and amplifiers working in the microwave region along with the practical achievements in this field Attention is paid to two level paramagnetic masers and the dependence of the form of the emitted signal on the different parameters The maser oscillator operating with a beam of active molecules is described in the next chapter which considers the three level paramagnetic oscillator the molecular beam oscillator and the two level solid state quantum oscillator The final chapter is devoted to lasers including gas lasers and solid state lasers Methods of obtaining negative temperatures are described together with the elements of laser theory and the kinetics of oscillation processes in solid state lasers This book is intended for university students with knowledge of theoretical physics particularly quantum mechanics Theory of Intermolecular Forces H. Margenau, N. R. Kestner, 2013-10-22 Theory of Intermolecular Forces deals with the exposition of the principles and techniques of the theory of intermolecular forces The text focuses on the basic theory and surveys other aspects with particular attention to relevant experiments The initial chapters introduce the reader to the history of intermolecular forces Succeeding chapters present topics on short intermediate and long range atomic interactions properties of Coulomb interactions shape dependent forces between molecules and physical adsorption The book will be of good use to experts and students of quantum mechanics and advanced physical chemistry Radio Emission of the Sun and Planets V. V. Zheleznyakov, 2013-09-03 International Series of Monographs in Natural Philosophy Volume 25 Radio Emission of the Sun and Planets presents the origin of the radio emission of the planets This book examines the outstanding triumphs achieved by radio astronomy of the solar system Comprised of 10 chapters this volume begins with an overview of the physical conditions in the upper layers of the Sun the Moon and the planets This text then examines the three characteristics of radio emission namely the frequency spectrum the polarization and the angular spectrum Other chapters consider the measurements of the intensity of the solar radio emission which indicate the existence of a lower limit This book discusses as well the complex phenomena of the sporadic solar radio emission The final chapter deals with the theory of the radio emission of Venus This monograph is a valuable resource for radio astronomers and astrophysicists who are interested in the state of investigations in galactic radio astronomy **Fundamental Principles of Modern Theoretical Physics** R. H. Furth, 2013-10-22

Fundamental Principles of Modern Theoretical Physics *Foundations of Statistical Mechanics* O. Penrose, 2016-09-21
 International Series of Monographs in Natural Philosophy Volume 22 *Foundations of Statistical Mechanics A Deductive Treatment* presents the main approaches to the basic problems of statistical mechanics This book examines the theory that provides explicit recognition to the limitations on one's powers of observation Organized into six chapters this volume begins with an overview of the main physical assumptions and their idealization in the form of postulates This text then examines the consequences of these postulates that culminate in a derivation of the fundamental formula for calculating probabilities in terms of dynamic quantities Other chapters provide a careful analysis of the significant notion of entropy which shows the links between thermodynamics and statistical mechanics and also between communication theory and statistical mechanics The final chapter deals with the thermodynamic concept of entropy This book is intended to be suitable for students of theoretical physics Probability theorists statisticians and philosophers will also find this book useful *An Introduction to Field Quantization* Y. Takahashi, 2016-09-20 *An Introduction to Field Quantization* is an introductory discussion of field quantization and problems closely related to it Field quantization establishes a commutation relation of the field and finds an operator in such a manner that the Heisenberg equation of motion is satisfied This book contains eight chapters and begins with a review of the quantization of the Schroedinger field and the close relation between quantized field theory and the many body theory in quantum mechanics These topics are followed by discussions of the quantization of the radiation field and the field of lattice vibrations in a solid The succeeding chapter deals with the familiar linear equations in relativistic field theory and the deduction of certain spin independent theories which these fields have in common Other chapter explores the derivation technique of the conservation laws for fields with arbitrary spin directly from the field equations without explicit recourse to Noether's theorem using a configuration space version of the generalized Ward identity The discussion then shifts to the relativistic quantization method applicable to any field with arbitrary spin the transformation of various fields under the Lorentz transformation and a general method for constructing wave functions explicitly as well as the application of this method to several examples The concluding chapter focuses on the quantization of interacting fields This book will prove useful to physicists and researchers Liquid Metals N. H. March, 2017-05-04 *Liquid Metals* covers topics about the properties of liquid metals with emphasis on the microscopic description of the electron states The book discusses radial distribution function which is the quantitative way by which the structure of a monatomic fluid may be described and the scattering of X rays or neutrons from the fluid The text describes the way by which the forces operating in liquid metals may be qualitatively described the theory of electron screening in metals the shielding of a structureless ion core in the Born approximation and ways by which the structure of the ion core can profoundly influence the shielding The forces operating between ions in liquid metals the properties of solid metals the time dependent generalization of the structure factor the dynamics of fluids from inelastic neutron scattering and the nature of the energy level spectrum of the electrons in a liquid

metal are also considered. Students of elementary quantum mechanics and statistical thermodynamics and physicists will find the book invaluable. An Introduction to the Phenomenological Theory of Ferroelectricity J. Grindlay, 2017-08-26. An Introduction to the Phenomenological Theory of Ferroelectricity covers topics about the basis and derivation of the macroscopic or phenomenological theory of the elastic dielectric and thermal properties of crystals as applied in the field of ferroelectricity. The monograph discusses the elastic dielectric and thermal properties of ferroelectric crystals, the standard linear time dependent electroelastic theory, the non linear static properties of an elastic dielectric on a variational principle and the phenomenological theory of the static thermal elastic and dielectric properties of a homogeneous material. The book also describes the theory of the static non linear behavior of an elastic dielectric as well as the phenomenological models for ferroelectricity. Students taking physics courses and practicing physicists will find the book invaluable. *Introduction to Quantum Electronics* H. G. Unger, 2017-05-04. Introduction to Quantum Electronics is based on a one semester lecture of electrical engineering for German students. The book is an introduction to the fundamentals of lasers and masers and a presentation of the principles of physics, their theory and methods of analysis that seek to analyze, explain and quantify related important phenomena. The properties of a laser are then discussed, the author comparing it to the properties of the maser. Although masers are based on the same physical properties as that of the lasers, masers amplify microwaves by induced emission. How the laser is amplified, its power and frequency of oscillation and which media are suitable for lasers are analyzed. Descriptions of the laser take more emphasis as it is considered to have more technical applications than the maser. An example given is the operation of the gas laser because it exhibits coherence in time and space, considered as the most important quality of laser beams. Physicists, students and academicians in the field of electrical engineering and quantum electronics will find that this book addresses many of their interests. *Nuclear Science Abstracts*, 1970.

Theoretical Solid State Physics Albert Haug, 2016-04-20. Theoretical Solid State Physics Volume 1 focuses on the study of solid state physics. The volume first takes a look at the basic concepts and structures of solid state physics, including potential energies of solids, concept and classification of solids and crystal structure. The book then explains single electron approximation wherein the methods for calculating energy bands, electron in the field of crystal atoms, laws of motion of the electrons in solids and electron statistics are discussed. The text describes general forms of solutions and relationships including collective electron interactions, Hartree Fock and Heitler London methods and electron-electron scattering. The volume also reviews the magnetic properties of solids, Paramagnetism and diamagnetism of free electrons, solids and atoms, behavior of electrons in a magnetic field and basic concepts of magnetism are discussed. The book also considers the dielectric properties of solids and dynamics of crystal lattices. The volume is a dependable source of data for readers interested in solid state physics. *Theory of Phase Transitions* Ya. G. Sinai, 2014-05-20. Theory of Phase Transitions: Rigorous Results is inspired by lectures on mathematical problems of statistical physics presented in the Mathematical

Institute of the Hungarian Academy of Sciences Budapest The aim of the book is to expound a series of rigorous results about the theory of phase transitions The book consists of four chapters wherein the first chapter discusses the Hamiltonian its symmetry group and the limit Gibbs distributions corresponding to a given Hamiltonian The second chapter studies the phase diagrams of lattice models that are considered at low temperatures The notions of a ground state of a Hamiltonian and the stability of the set of the ground states of a Hamiltonian are also introduced Chapter 3 presents the basic theorems about lattice models with continuous symmetry and Chapter 4 focuses on the second order phase transitions and on the theory of scaling probability distributions connected to these phase transitions Specialists in statistical physics and other related fields will greatly benefit from this publication The Laser Literature Kiyo Tomiyasu,2013-11-09 *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 *New Type of sub-THz Oscillator and Amplifier Systems Based on Helical-Type Gyro-TWTs* Marek, Alexander,2023-01-26 This work presents the development of a new sub THz source for the generation of trains of coherent high power ultra short pulses at 263 GHz via passive mode locking of two coupled helical gyro TWTs For the first time it is shown that the operation of such passive mode locked helical gyro TWTs in the hard excitation regime is of particular importance to reach the optimal coherency of the generated pulses This could be of particular interest for some new time domain DNP NMR methods *Lectures in Scattering Theory* A. G. Sitenko,2013-10-22 Lectures in Scattering Theory discusses problems in quantum mechanics and the principles of the non relativistic theory of potential scattering This book describes in detail the properties of the scattering matrix and its connection with physically observable quantities This text presents a stationary formulation of the scattering problem and the wave functions of a particle found in an external field This book also examines the analytic properties of the scattering matrix dispersion relations complex angular moments as well as the separable representation of the scattering amplitude The text also explains the method of factorizing the potential and the two particle scattering amplitude based on the Hilbert Schmidt theorem for symmetric integral equations In investigating the problem of scattering in a three particle system this book notes that the inapplicability of the Lippman Schwinger equations can be fixed by appropriately re arranging the equations Faddeev

equations are the new equations formed after such re arrangements This book also cites as an example the scattering of a spin $\frac{1}{2}$ particle by a spinless particle such as the scattering of a nucleon by a spinless nucleus This text is suitable for students and professors dealing with quantum mechanics theoretical nuclear physics or other fields of advanced physics

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