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M. Toda

Theory of Nonlinear Lattices

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Stefan Hübner



Theory Of Nonlinear Lattices Springer Series In Solid State Sciences:

Theory of Nonlinear Lattices Morikazu Toda, 2012-12-06 Soliton theory the theory of nonlinear waves in lattices composed of particles interacting by nonlinear forces is treated rigorously in this book The presentation is coherent and self contained starting with pioneering work and extending to the most recent advances in the field Special attention is focused on exact methods of solution of nonlinear problems and on the exact mathematical treatment of nonlinear lattice vibrations This new edition updates the material to take account of important new advances *Theory of Nonlinear Lattices (Volume 20 of Springer Series in Solid-State Sciences)*. M. Toda, 1981 **Principles of the Theory of Lattice Dynamics** Harald Böttger, 1983-12-31 No detailed description available for Principles of the Theory of Lattice Dynamics Nonlinear Dynamics Alexander B. Borisov, Vladimir V. Zverev, 2016-11-21 The book provides a concise and rigor introduction to the fundamentals of methods for solving the principal problems of modern non linear dynamics This monograph covers the basic issues of the theory of integrable systems and the theory of dynamical chaos both in nonintegrable conservative and in dissipative systems A distinguishing feature of the material exposition is to add some comments historical information brief biographies and portraits of the researchers who made the most significant contribution to science This allows one to present the material as accessible and attractive to students to acquire indepth scientific knowledge of nonlinear mechanics feel the atmosphere where those or other important discoveries were made The book can be used as a textbook for advanced undergraduate and graduate students majoring in high tech industries and high technology the science based on high technology to help them to develop lateral thinking in early stages of training Contents Nonlinear Oscillations Integrable Systems Stability of Motion and Structural Stability Chaos in Conservative Systems Chaos and Fractal Attractors in Dissipative Systems Conclusion References Index *Selected Papers of Morikazu Toda* Morikazu Toda, Miki Wadati, 1993 This volume contains selected papers of Dr Morikazu Toda The papers are arranged in chronological order of publishing dates Among Dr Toda s many contributions his works on liquids and nonlinear lattice dynamics should be mentioned The one dimensional lattice where nearest neighboring particles interact through an exponential potential is called the Toda lattice which is a miracle and indeed a jewel in theoretical physics The papers in this volume can be grouped into five subjects statistical mechanics theory of liquids and solutions lattice dynamics Toda lattice and soliton theory and its applications

Positron Annihilation in Semiconductors Reinhard Krause-Rehberg, Hartmut S. Leipner, 1999-01-21 This comprehensive book reports on recent investigations of lattice imperfections in semiconductors by means of positron annihilation It reviews positron techniques and describes the application of these techniques to various kinds of defects such as vacancies impurity vacancy complexes and dislocations High Magnetic Fields in Semiconductor Physics III Gottfried Landwehr, 2012-12-06 High magnetic fields have for a long time been an important tool in the investigation of the electronic structure of semiconductors In recent years studies of heterostructures and superlattices have predominated and this

emphasis is reflected in these proceedings The contributions concentrate on experiments using transport and optical methods but recent theoretical developments are also covered Special attention is paid to the quantum Hall effect including the problem of edge currents the influence of contacts and Wigner condensation in the fractional quantum Hall effect regime The 27 invited contributions by renowned experts provide an excellent survey of the field that is complemented by numerous contributed papers

Physics of Transition Metal Oxides Sadamichi Maekawa, Takami Tohyama, Stewart Edward Barnes, Sumio Ishihara, Wataru Koshibae, Giniyat Khaliullin, 2013-03-09 The fact that magnetite Fe_3O_4 was already known in the Greek era as a peculiar mineral is indicative of the long history of transition metal oxides as useful materials The discovery of high temperature superconductivity in 1986 has renewed interest in transition metal oxides High temperature superconductors are all cuprates Why is it To answer to this question we must understand the electronic states in the cuprates Transition metal oxides are also familiar as magnets They might be found stuck on the door of your kitchen refrigerator Magnetic materials are valuable not only as magnets but as electronics materials Manganites have received special attention recently because of their extremely large magnetoresistance an effect so large that it is called colossal magnetoresistance CMR What is the difference between high temperature superconducting cuprates and CMR manganites Elements with incomplete d shells in the periodic table are called transition elements Among them the following eight elements with the atomic numbers from 22 to 29 i.e. Ti V Cr Mn Fe Co Ni and Cu are the most important These elements make compounds with oxygen and present a variety of properties High temperature superconductivity and CMR are examples Most of the textbooks on magnetism discuss the magnetic properties of transition metal oxides However when one studies magnetism using traditional textbooks one finds that the transport properties are not introduced in the initial stages

Electron Spectrum of Gapless Semiconductors J. Tsidilkovski, 2012-12-06 Electron Spectrum of Gapless Semiconductors presents the peculiarities of physical properties of a comparatively new class of solids gapless semiconductors GS These peculiarities are determined by the main feature of the electron spectrum namely the absence of a gap between the conduction and valence bands GSs form a boundary between metals and semiconductors On the other hand GSs are of practical interest since they are very sensitive to impurities and to the influence of light magnetic and electric fields and pressure

Phase Separation in Soft Matter Physics Pulat K. Khabibullaev, Abdulla Saidov, 2013-04-17 This is the first monograph devoted to investigation of the most complex physical processes of soft systems including a wide class of solutions It blends modern theoretical understanding and experimental results proposing new methods and models for the description of several soft systems

Self-Trapped Excitons K.S. Song, Richard T. Williams, 2013-03-08 Self Trapped Excitons discusses the structure and evolution of the self trapped exciton STE in a wide range of materials It includes a comprehensive review of experiments and extensive tables of data Emphasis is given throughout to the unity of the basic physics underlying various manifestations of self trapping with the theory being developed from a localized atomistic perspective The topics treated in detail in relation to

STE relaxation include spontaneous symmetry breaking lattice defect formation radiation damage and electronic sputtering

The Quantum Hall Effects Tapash Chakraborty, Pekka Pietiläinen, 2013-03-12 The experimental discovery of the fractional quantum Hall effect FQHE at the end of 1981 by Tsui Stormer and Gossard was absolutely unexpected since at this time no theoretical work existed that could predict new structures in the magnetotransport coefficients under conditions representing the extreme quantum limit It is more than thirty years since investigations of bulk semiconductors in very strong magnetic fields were begun Under these conditions only the lowest Landau level is occupied and the theory predicted a monotonic variation of the resistivity with increasing magnetic field depending sensitively on the scattering mechanism However the experimental data could not be analyzed accurately since magnetic freeze out effects and the transitions from a degenerate to a nondegenerate system complicated the interpretation of the data For a two dimensional electron the positive background charge is well separated from the two gas where dimensional system magnetic freeze out effects are barely visible and an analysis of the data in the extreme quantum limit seems to be easier First measurements in this magnetic field region on silicon field effect transistors were not successful because the disorder in these devices was so large that all electrons in the lowest Landau level were localized Consequently models of a spin glass and finally of a Wigner solid were developed and much effort was put into developing the technology for improving the quality of semiconductor materials and devices especially in the field of two dimensional electron systems

The Quantum Hall Effect Daijiro Yoshioka, 2013-03-09 Today more than 20 years after the discovery of the quantum Hall effect the number of publications in this field at more than one paper per day is still increasing This remarkable fact requires some explanation It also poses but perhaps also answers the question of why a new monograph entitled The Quantum Hall Effect is a highly desirable addition to the literature Originally the quantum Hall effect QHE was a term coined to describe the unexpected observation of a fundamental electrical resistance with a value independent of the microscopic details of the semiconductor device The simplest explanation of this phenomenon was based on an independent electron picture The subsequent discovery of the fractional quantum Hall effect demonstrated that a many body wave function and a more global view of the system is necessary to incorporate and explain interesting new aspects Today the quantum Hall effect has become a pseudonym for many different phenomena observed in high magnetic fields with connections not only to solid state physics but also to theoretical descriptions in plasma physics astrophysics atomic physics and high energy physics There are even speculations that a higher dimensional generalization of the QHE may be useful for discussing questions related to the basic properties of space

Correlation Effects in Low-Dimensional Electron Systems Ayao Okiji, Norio Kawakami, 2012-12-06 Correlation Effects in Low Dimensional Electron Systems describes recent developments in theoretical condensed matter physics emphasizing exact solutions in one dimension including conformal field theoretical approaches the application of quantum groups and numerical diagonalization techniques Various key properties are presented for two dimensional highly correlated

electron systems
Shah,2013-11-11

Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep
Spectroscopy of Mott Insulators and Correlated Metals Atsushi Fujimori,Yoshinori

Tokura,2012-12-06 Extensive studies of high T_c cuprate superconductors have stimulated investigations into various transition metal oxides Mott transitions in particular provide fascinating problems and new concepts in condensed matter physics This book is a collection of overviews by well known active researchers in this field It deals with the latest developments with particular emphasis on the theoretical spectroscopic and transport aspects

Interatomic Potential and Structural Stability Kiyoyuki Terakura,Hisazumi Akai,2013-03-08 Structural stability is of fundamental importance in materials science Up to date information on the theoretical aspects of phase stability of materials is contained in this volume Most of the first principles calculations are based on the local density approximation LDA In contrast this volume contains very recent results of going beyond LDA such as the density gradient expansion and the quantum Monte Carlo method Following the recently introduced theoretical methods for the calculation of interatomic potentials forces acting on atoms and total energies such as the Car Parrinello the effective medium and the bond order method attempts have been made to develop even more sophisticated methods such as the order N method in electronic structure calculations The present status of these methods and their application to real systems are described In addition in order to study the phase stability at finite temperatures the microscopic calculations have to be combined with statistical treatment of the systems to describe e g order disorder transitions on the Si 001 surface or alloy phase diagrams This book contains examples for this type of calculations

Products of Random Matrices Andrea Crisanti,Giovanni Paladin,Angelo Vulpiani,2012-12-06 At the present moment after the success of the renormalization group in providing a conceptual framework for studying second order phase transitions we have a nearly satisfactory understanding of the statistical mechanics of classical systems with a non random Hamiltonian The situation is completely different if we consider the theory of systems with a random Hamiltonian or of chaotic dynamical systems The two fields are connected in fact in the latter the effects of deterministic chaos can be modelled by an appropriate stochastic process Although many interesting results have been obtained in recent years and much progress has been made we still lack a satisfactory understanding of the extremely wide variety of phenomena which are present in these fields The study of disordered or chaotic systems is the new frontier where new ideas and techniques are being developed More interesting and deep results are expected to come in future years The properties of random matrices and their products form a basic tool whose importance cannot be underestimated They play a role as important as Fourier transforms for differential equations This book is extremely interesting as far as it presents a unified approach for the main results which have been obtained in the study of random matrices It will become a reference book for people working in the subject The book is written by physicists uses the language of physics and I am sure that many physicists will read it with great pleasure

Photoelectron Spectroscopy Stefan Hüfner,2013-11-11 Photoelectron Spectroscopy presents an up to date

introduction to the field by treating comprehensively the electronic structures of atoms molecules solids and surfaces Brief descriptions are given of inverse photoemission spin polarized photoemission and photoelectron diffraction Experimental aspects are considered throughout the book and the results are carefully interpreted by theory A wealth of measured data is presented in the form of tables for easy use by experimentalists Electronic Properties of Polymers Hans Kuzmany, Michael Mehring, Siegmund Roth, 2012-12-06 The International Winter School on Electronic Properties of Polymers Orientation and Dimensionality of Conjugated Systems held March 9-16 1991 in Kirchberg Tyrol Austria was a sequel to three meetings on similar subjects held there The 1991 winter school was again organized in cooperation with the Bundesministerium für Wissenschaft und Forschung in Austria and with the Bundesministerium für Forschung und Technologie in the Federal Republic of Germany The basic idea of the meeting was to provide an opportunity for experienced scientists from universities and industry to discuss their most recent results and for students and young scientists to become familiar with the present status of research and applications in the field Like the previous winter schools on polymers this one concentrated on the electronic structure and potential for application of polymers with conjugated double bonds This time however special attention was paid to the effects of orientation and dimensionality Anisotropy of the electric conductivity in stretch oriented samples and whether the transport mechanisms are one two or three dimensional or might even have a fractal dimensionality were therefore central topics The problem of orientation was extended to systems such as Langmuir Blodgett films and other layered structures Accordingly thin films were the focus of most of the application oriented contributions Whereas in the previous winter schools discussions on applications dealt with large volume applications such as electromagnetic shielding and energy storage this time molecular materials for electronics and prospects of molecular electronics were at the center of interest

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