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T. Inui Y. Tanabe Y. Onodera

Group Theory and Its Applications in Physics



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Group Theory And Its Applications In Physics Springer Series In Solid State Sciences:

Group Theory and Its Applications in Physics Teturo Inui, Yukito Tanabe, Yositaka Onodera, 2012-12-06 This book has been written to introduce readers to group theory and its applications in atomic physics molecular physics and solid state physics The first Japanese edition was published in 1976 The present English edition has been translated by the authors from the revised and enlarged edition of 1980 In translation slight modifications have been made in Chaps 8 and 14 to update and condense the contents together with some minor additions and improvements throughout the volume The authors cordially thank Professor J L Birman and Professor M Car dona who encouraged them to prepare the English translation Tokyo January 1990 T Inui Y Tanabe Y Onodera Preface to the Japanese Edition As the title shows this book has been prepared as a textbook to introduce readers to the applications of group theory in several fields of physics Group theory is in a nutshell the mathematics of symmetry It has three main areas of application in modern physics The first originates from early studies of crystal morphology and constitutes a framework for classical crystal physics The analysis of the symmetry of tensors representing macroscopic physical properties such as elastic constants belongs to this category The second area was enunciated by E Wigner 1926 as a powerful means of handling quantum mechanical problems and was first applied in this sense to the analysis of atomic spectra Soon H *Introduction to Solid-State Theory* Otfried Madelung, 1978 This textbook for graduate students of physics and materials science also provides the theoretical background needed by physicists carrying out research in pure solid state physics and its applications to electrical engineering **Handbook of Thin Films** Hari Singh Nalwa, 2001-11-17 This five volume handbook focuses on processing techniques characterization methods and physical properties of thin films thin layers of insulating conducting or semiconductor material The editor has composed five separate thematic volumes on thin films of metals semimetals glasses ceramics alloys organics diamonds graphites porous materials noncrystalline solids supramolecules polymers copolymers biopolymers composites blends activated carbons intermetallics chalcogenides dyes pigments nanostructured materials biomaterials inorganic polymer composites organoceramics metallocenes disordered systems liquid crystals quasicrystals and layered structures Thin films is a field of the utmost importance in today's materials science electrical engineering and applied solid state physics with both research and industrial applications in microelectronics computer manufacturing and physical devices Advanced high performance computers high definition TV digital camcorders sensitive broadband imaging systems flat panel displays robotic systems and medical electronics and diagnostics are but a few examples of miniaturized device technologies that depend the utilization of thin film materials The Handbook of Thin Films Materials is a comprehensive reference focusing on processing techniques characterization methods and physical properties of these thin film materials **Handbook of Nitride Semiconductors and Devices, Materials Properties, Physics and Growth** Hadis Morkoç, 2009-07-30 The three volumes of this handbook treat the fundamentals technology and nanotechnology of nitride semiconductors with an extraordinary clarity and depth

They present all the necessary basics of semiconductor and device physics and engineering together with an extensive reference section Volume 1 deals with the properties and growth of GaN The deposition methods considered are hydride VPE organometallic CVD MBE and liquid high pressure growth Additionally extended defects and their electrical nature point defects and doping are reviewed

Frustrated Spin Systems (Third Edition) Hung-the Diep, 2020-06-19 Frustrated spin systems have been first investigated five decades ago Well known examples include the Ising model on the antiferromagnetic triangular lattice studied by G H Wannier in 1950 and the Heisenberg helical structure discovered independently by A Yoshimori J Villain and T A Kaplan in 1959 However extensive investigations on frustrated spin systems have really started with the concept of frustration introduced at the same time by G Toulouse and by J Villain in 1977 in the context of spin glasses The frustration is generated by the competition of different kinds of interaction and or by the lattice geometry As a result in the ground state all bonds are not fully satisfied In frustrated Ising spin systems a number of spins behave as free spins In frustrated vector spin systems the ground state configuration is usually non collinear The ground state of frustrated spin systems is therefore highly degenerate and new induced symmetries give rise to unexpected behaviors at finite temperatures Many properties of frustrated systems are still not well understood at present Theoretically recent studies shown in this book reveal that established theories numerical simulations as well as experimental techniques have encountered many difficulties in dealing with frustrated systems In some sense frustrated systems provide an excellent testing ground for approximations and theories Experimentally more and more frustrated materials are discovered with interesting properties for applications

Two-Dimensional Coulomb Liquids and Solids Yuriy Monarkha, Kimitoshi Kono, 2013-03-09 This book is about quantum phenomena in two dimensional 2D electron systems with extremely strong internal interactions The central objects of interest are Coulomb liquids in which the average Coulomb interaction energy per electron is much higher than the mean kinetic energy and Wigner solids The main themes are quantum transport in two dimensions and the dynamics of highly correlated electrons in the regime of strong coupling with medium excitations In typical solids the mutual interaction energy of charge carriers is of the same order of magnitude as their kinetic energy and the Fermi liquid approach appears to be quite satisfactory However in 1970 a broad research began to investigate a remarkable model 2D electron system formed on the free surface of superfluid helium In this system complementary to the 2D electronic systems formed in semiconductor interface structures the ratio of the mean Coulomb energy of electrons to their kinetic energy can reach approximately a hundred before it undergoes the Wigner solid WS transition Under such conditions the Fermi liquid description is doubtful and one needs to introduce alternative treatments Similar interface electron systems form on other cryogenic substrates like neon and solid hydrogen

Elementary Processes in Excitations and Reactions on Solid Surfaces Ayao Okiji, Kenji Makoshi, Hideaki Kasai, 1996-09-17 Elementary Processes in Excitations and Reactions on Solid Surfaces explores the fundamental nature of dynamics on solid surfaces Attempts are

made to reveal various aspects of elementary processes in excitations and reactions on solid surfaces by recent theoretical and experimental developments of the subjects such as molecular beams interacting with surfaces ion beam scattering laser induced dynamical processes electronically induced dynamical processes and optical properties of solid surfaces This volume is divided into three parts Part I is concerned mainly with the rich reaction dynamics on potential energy surfaces Part II is devoted to the interplay of excitations and reactions with particular attention given to the charge transfer as well as the energy transfer between well characterized surfaces and beams In Part III new and rapidly developing methods are introduced

Frustrated Spin Systems (2nd Edition) Hung-the Diep, 2013-03-25 This book covers all principal aspects of currently investigated frustrated systems from exactly solved frustrated models to real experimental frustrated systems going through renormalization group treatment Monte Carlo investigation of frustrated classical Ising and vector spin models low dimensional systems spin ice and quantum spin glass The reader can within a single book obtain a global view of the current research development in the field of frustrated systems This new edition is updated with recent theoretical numerical and experimental developments in the field of frustrated spin systems The first edition of the book appeared in 2005 In this edition more recent works until 2012 are reviewed It contains nine chapters written by researchers who have actively contributed to the field Many results are from recent works of the authors The book is intended for postgraduate students as well as researchers in statistical physics magnetism materials science and various domains where real systems can be described with the spin language Explicit demonstrations of formulas and full arguments leading to important results are given where it is possible to do so

X-Ray Multiple-Wave Diffraction Shih-Lin Chang, 2013-04-17 X ray multiple wave diffraction sometimes called multiple diffraction or N beam diffraction results from the scattering of X rays from periodic two or higher dimensional structures like 2 d and 3 d crystals and even quasi crystals The interaction of the X rays with the periodic arrangement of atoms usually provides structural information about the scatterer Unlike the usual Bragg reflection the so called two wave diffraction the multiply diffracted intensities are sensitive to the phases of the structure factors involved This gives X ray multiple wave diffraction the chance to solve the X ray phase problem On the other hand the condition for generating an X ray multiple wave diffraction is much more strict than in two wave cases This makes X ray multiple wave diffraction a useful technique for precise measurements of crystal lattice constants and the wavelength of radiation sources Recent progress in the application of this particular diffraction technique to surfaces thin films and less ordered systems has demonstrated the diversity and practicability of the technique for structural research in condensed matter physics materials sciences crystallography and X ray optics The first book on this subject Multiple Diffraction of X Rays in Crystals was published in 1984 and intended to give a contemporary review on the fundamental and application aspects of this diffraction

Computational Materials Science Kaoru Ohno, Keivan Esfarjani, Yoshiyuki Kawazoe, 1999-08-18 Powerful computers now enable scientists to model the physical and chemical properties and behavior

of complex materials using first principles This book introduces dramatically new computational techniques in materials research specifically for understanding molecular dynamics

Optomagnonic Structures: Novel Architectures For Simultaneous Control Of Light And Spin Waves Evangelos Almpanis, 2021-01-18 Understanding controlling and more importantly enhancing the interaction between light photons and spin waves magnons can be among others a step towards the realization of magnon mediated microwave to optical transducers for quantum computing applications or hybrid solid state spintronic photonic interconnections In this respect the development of novel composite multifunctional micro nanostructures so called optomagnonic which simultaneously control optical and spin waves and enhance their interaction is particularly attractive This book constitutes a collective work comprising seven chapters from leading researchers in the field of optomagnonics and related areas Apart from exciting recent developments it provides the necessary fundamental knowledge in an explanatory manner and therefore it is accessible to non experts It is suitable for PhD students post docs and researchers who are willing to get engaged in optomagnonics while selected parts could also serve as lecture material for advanced courses With increasing demand for miniaturized optomagnonic devices this book will be an important resource to researchers working on optomagnonics magneto optics spintronics as well as on hybrid micro nano devices for information processing

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

Optical Response of Nanostructures Kikuo Cho, 2013-03-14 This book deals with a recently developed theoretical method for calculating the optical response of nanoscale or mesoscopic matter There has been much interest in this type of matter system because it brings out a new feature of solid state physics viz the central importance of the quantum mechanical coherence of matter in its transport and optical properties in contrast to bulk systems The author has been interested in the optical properties of mesoscopic matter since the mid 1980s seeking to construct a new theoretical framework beyond the traditional macroscopic optical response theory The new element to be included is the microscopic spatial structure of the response field and induced polarization and the nonlocal relationship between them This is the counterpart of the size quantization of confined electrons or excitons reflecting the sample size and shape in detail Although the latter aspect has been widely discussed the former has not received due attention and this has prompted the author to introduce a new theoretical framework This book describes such a theory as developed by the author's present group Although it is only one of several such frameworks we believe that it is constructed in a sufficiently general manner to apply to the study of the linear and nonlinear optical responses of nanostructures of various sizes and shapes subjects of considerable interest today

Electron Correlations in Molecules and Solids Peter Fulde, 2012-12-06 Electron Correlations in Molecules and Solids bridges the gap between quantum chemistry and solid state theory In the first half of

the text new concepts are developed for treating many body and correlation effects combining standard quantum chemical methods with projection techniques Greens function methods and Monte Carlo techniques The second half deals with applications of the theory to molecules semiconductors transition metals heavy fermion systems and the new high T_c superconducting materials **A Course On Many-body Theory Applied To Solid-state Physics** Charles P

Enz,1992-10-15 The main aim of this book is to give a self contained and representative cross section through present day research in solid state physics This covers metallic and mesoscopic transport localization by disorder and superconductivity including questions related to high temperature superconductors and to heavy fermion systems An important part of the book is devoted to itinerant electron magnetism discussing paramagnons strong correlation magnetization fluctuations and spin density waves All the formal tools used in these chapters are developed in the first part of the book which contains a thorough discussion of second quantization and of perturbation theory for an arbitrary complex time path and also describes the functional approach to Feynman diagrams including general ward identities Each chapter contains an extensive list of the relevant literature and a series of problems with detailed solutions which complement the main text The book is meant both as a course and a research tool *Soviet Physics, Uspekhi* ,1991 **Applications of Finite Groups** J. S.

Lomont,2014-05-12 Applications of Finite Groups focuses on the applications of finite groups to problems of physics including representation theory crystals wave equations and nuclear and molecular structures The book first elaborates on matrices groups and representations Topics include abstract properties applications matrix groups key theorem of representation theory properties of character tables simply reducible groups tensors and invariants and representations generated by functions The text then examines applications and subgroups and representations as well as subduced and induced representations fermion annihilation and creation operators crystallographic point groups proportionality tensors in crystals and nonrelativistic wave equations The publication takes a look at space group representations and energy bands symmetric groups and applications Topics include molecular and nuclear structures multiplet splitting in crystalline electric fields construction of irreducible representations of the symmetric groups and reality of representations The manuscript is a dependable source of data for physicists and researchers interested in the applications of finite groups **Strong-Coupling Theory of High-Temperature Superconductivity** Alexandre S. Alexandrov,2013-05-02 High temperature superconductivity has transformed the landscape of solid state science leading to the discovery of new classes of materials states of matter and concepts However despite being over a quarter of a century since its discovery there is still no single accepted theory to explain its origin This book presents one approach the strong coupling or bipolaron theory which proposes that high temperature superconductivity originates from competing Coulomb and electron phonon interactions The author provides a thorough overview of the theory describing numerous experimental observations and giving detailed mathematical derivations of key theoretical findings at an accessible level Applications of the theory to existing high temperature

superconductors are discussed as well as possibilities of liquid superconductors and higher critical temperatures Alternative theories are also examined to provide a balanced and informative perspective This monograph will appeal to advanced researchers and academics in the fields of condensed matter physics and quantum field theories **Quantum Mechanics with Applications to Nanotechnology and Information Science** Yehuda B. Band, Yshai Avishai, 2013-01-10 Quantum mechanics transcends and supplants classical mechanics at the atomic and subatomic levels It provides the underlying framework for many subfields of physics chemistry and materials science including condensed matter physics atomic physics molecular physics quantum chemistry particle physics and nuclear physics It is the only way we can understand the structure of materials from the semiconductors in our computers to the metal in our automobiles It is also the scaffolding supporting much of nanoscience and nanotechnology The purpose of this book is to present the fundamentals of quantum theory within a modern perspective with emphasis on applications to nanoscience and nanotechnology and information technology As the frontiers of science have advanced the sort of curriculum adequate for students in the sciences and engineering twenty years ago is no longer satisfactory today Hence the emphasis on new topics that are not included in older reference texts such as quantum information theory decoherence and dissipation and on applications to nanotechnology including quantum dots wires and wells This book provides a novel approach to Quantum Mechanics whilst also giving readers the requisite background and training for the scientists and engineers of the 21st Century who need to come to grips with quantum phenomena The fundamentals of quantum theory are provided within a modern perspective with emphasis on applications to nanoscience and nanotechnology and information technology Older books on quantum mechanics do not contain the amalgam of ideas concepts and tools necessary to prepare engineers and scientists to deal with the new facets of quantum mechanics and their application to quantum information science and nanotechnology As the frontiers of science have advanced the sort of curriculum adequate for students in the sciences and engineering twenty years ago is no longer satisfactory today There are many excellent quantum mechanics books available but none have the emphasis on nanotechnology and quantum information science that this book has Integral Systems, Solid State Physics and Theory of Phase Transitions V. V. Dodonov, Vladimir Ivanovich Man'ko, 1991

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