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Electron Correlation and Magnetism in Narrow-Band Systems

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Electron Correlation And Magnetism In Narrow Band Systems

Tōru Moriya

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Electron Correlation and Magnetism in Narrow-band Systems Toru Moriya, 1981 Electron Correlation and Magnetism in Narrow-Band Systems T. Moriya, 2012-12-06 Speech by Toyosaburo Taniguchi Welcome my friends to the Third International Symposium Division on the Theory of Condensed Matter of the Taniguchi Foundation The need is now greater than ever for Japan to consider how to strengthen and foster international understanding between nations peoples and societies and how to contribute towards the establishment of peace and prosperity in the world For more than twenty years I have been supporting a symposium on mathematics in which distinguished scholars from all over the world have engaged in free discussions In this symposium all the participants live together in community style I have heard from members of some of these study groups that this type of setup has helped to strengthen their ties and relationships with their colleagues on a personal basis What developed in the mathematics group led me to reorganize and strengthen the Taniguchi Foundation only a few years ago through additional funding In order to effectively translate the objectives of the Foundation into action with the funds available it becomes necessary to select those fields which are not necessarily in the limelight of popular interest which means those fields which I am afraid are low in funding I would rather choose from modest unimpressive academic fields than for the Foundation projects those that stand out in gaudy gorgeous popular acclaim **Electron Correlation and Magnetism in Narrow-Band Systems** , Electron Correlation and Magnetism in Narrow-Band Systems T. Moriya, 1981-05-01 **Electron Correlation And Magnetism In Narrow-band Systems (proc. 3th Taniguchi, 80)** T. Moriya, *Electron Correlation and Magnetism in Narrow-band Systems* Tōru Moriya, 1981 **Lecture Notes On Electron Correlation And Magnetism** Patrik Fazekas, 1999-01-25 This volume attempts to fill the gap between standard introductions to solid state physics and textbooks which give a sophisticated treatment of strongly correlated systems Starting with the basics of the microscopic theory of magnetism one proceeds with relatively elementary arguments to such topics of current interest as the Mott transition heavy fermions and quantum magnetism The basic approach is that magnetism is one of the manifestations of electron-electron interaction and its treatment should be part of a general discussion of electron correlation effects Though the text is primarily theoretical a large number of illustrative examples are brought from the experimental literature There are many problems with detailed solutions The book is based on the material of lectures given at the Diploma Course of the International Center for Theoretical Physics Trieste and later at the Technical University and the R E tv s University of Budapest Hungary **Electron Correlation and Magnetism in Narrow-band Systems. Proceedings of the 3rd Taniguchi International Symposium. Mount Fuji. 1-5 November, 1980** Tōru Moriya, 1981 Electron Correlations in Molecules and Solids Peter Fulde, 2012-12-06 Quantum chemistry and solid state theory are two important related fields of research that have grown up with almost no cross communication This book bridges the gap between the two In the first half new concepts for treating weak and strong correlations are developed and standard

quantum chemical methods as well as density functional integral and Monte Carlo methods are discussed. The second half discusses applications of the theory to molecules, semiconductors, homogeneous metallic systems, transition metals, and strongly correlated systems such as heavy fermion systems and the new high T superconducting materials.

Symmetries in Physics Wolfgang Ludwig, Claus Falter, 2012-12-06. *Symmetries in Physics* presents the fundamental theories of symmetry together with many examples of applications taken from several different branches of physics. Emphasis is placed on the theory of group representations and on the powerful method of projection operators. The exercises are intended to stimulate readers to apply the techniques demonstrated in the text.

Site Symmetry in Crystals Robert A. Evarestov, Vyacheslav P. Smirnov, 2012-12-06. *Site Symmetry in Crystals* is the first comprehensive account of the group theoretical aspects of the site local symmetry approach to the study of crystalline solids. The efficiency of this approach, which is based on the concepts of simple induced and band representations of space groups, is demonstrated by considering newly developed applications to electron surface states, point defects, symmetry analysis in lattice dynamics, the theory of second order phase transitions, and magnetically ordered and non rigid crystals. Tables of simple induced representations are given for the 24 most common space groups, allowing the rapid analysis of electron and phonon states in complex crystals with many atoms in the unit cell.

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.

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.

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.

Statistical Physics II Ryogo Kubo, Morikazu Toda, Natsuki Hashitsume, 2012-12-06. Statistical Physics II introduces nonequilibrium theories of statistical mechanics from the viewpoint of the fluctuation-dissipation theorem. Emphasis is placed on the relaxation from nonequilibrium to equilibrium, states the response of a system to an external disturbance, and general problems involved in deriving a macroscopic physical process from more basic underlying processes. Fundamental concepts and methods are stressed rather than the numerous individual 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.

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

Excitons in Low-Dimensional Semiconductors Stephan Glutsch, 2013-04-17 Low dimensional semiconductors have become a vital part of today's semiconductor physics and excitons in these systems are ideal objects that bring textbook quantum mechanics to life Furthermore their theoretical understanding is important for experiments and optoelectronic devices The author develops the effective mass theory of excitons in low dimensional semiconductors and describes numerical methods for calculating the optical absorption including Coulomb interaction geometry and external fields The theory is applied to Fano resonances in low dimensional semiconductors and the Zener breakdown in superlattices Comparing theoretical results with experiments the book is essentially self contained it is a hands on approach with detailed derivations worked examples illustrative figures and computer programs The book is clearly structured and will be valuable as an advanced level self study or course book for graduate students lecturers and researchers

Physics and Chemistry of Transition Metal Oxides Hidetoshi Fukuyama, Naoto Nagaosa, 2012-12-06 Physics and Chemistry of Transition Metal Oxides includes both theoretical and experimental approaches to the variety of phenomena found in the transition metal oxides including high temperature superconductivity colossal magnetoresistance and metal insulator transition These are the central issues in materials science and condensed matter physics chemistry and readers can obtain up to date information on what is happening in this field of research

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

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