Fermi Surface Effects.
Proceedings of the
Tsukuba Institute, Tsukuba
Science City, Japan,
August 27-29, 1987.

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Kondo, J; Yoshimori, A [Eds]

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# **Fermi Surface Effects**

Olle G Heinonen

#### **Fermi Surface Effects:**

Fermi Surface Effects Jun Kondo, A. Yoshimori, 2012-12-06 This volume is the proceedings of the Tsukuba Institute 87 on Fermi Surface Effects which was held August 27 29 1987 at Tsukuba Science City in Japan The topic of the Institute Fermi surface effects is one of the fascinating subjects of solid state physics It has been known since Sommerfeld's work that the conduction electrons of metals constitute a degenerate Fermi system and it has also been recognized that the occu pation number of the electron states has a discontinuity across the Fermi surface Several basic properties of metal electrons stem from this fact Furthermore it gives rise to a singular response of the metal electrons to local and dynamical perturbations of low frequency Such singular behav ior of the metal electrons is called a Fermi surface effect In his opening address printed as the Foreword Professor R Kubo described Fermi sur face effects as due to wild behavior of the metal electrons The Institute co sisted of five invited lectures each of which was two hours long and dealt with theoretical aspects of a subject related to Fermi surface effects Each lecturer is an expert in the field and gave an in tensive treatment of his own subject The experiment of inviting only very few lecturers and allotting them ample time for both presentation and discussion seems to have been successful This Institute which was sponsored by the Japan Industrial Technology Association will probably be followed by other institutes forming a series Fermi Surface Effects A. Yoshimori, J. Kondo, Tsukuba Institute on Fermi Surface Effects, 1988 Fermi Surface Effects in Terbium Alloys Paul Burgardt, 1976 **Physical Effects of Geometric Phases** Qian Niu, Ming-Che Chang, Biao Wu, Di Xiao, Ran Cheng, 2017-08-28 Berry phase has been widely used in condensed matter physics in the past two decades This volume is a timely collection of essential papers in this important field which is highlighted by 2016 Nobel Prize in physics and recent exciting developments in topological matters Each chapter has an introduction which helps readers to understand the reprints that follow Optical Properties Of Low-dimensional Materials Yoshihiko Kanemitsu, Tetsuo Ogawa, 1996-01-18 This book surveys recent experimental and theoretical studies on optical properties of low dimensional materials e g artificial crystals in zeolites C60 and its related compounds silicon nanostructures including porous Si II VI and III V semiconductor quantum structures and Pb based natural quantum well systems The eight excellent detailed review articles are written by authorities on each field in Japan All the materials introduced in this book yield new optical phenomena originating from their mesoscopic and low dimensional characters contributing to a new research field of condensed matter and optical physics Nucleon Correlations in Nuclei Anton N. Antonov, Peter E. Hodgson, Ivan Z. Petkov, 2012-12-06 In recent years there has been growing interest in the nucleon nucleon correl ations inside nuclei In many respects the motions of the nucleons can be very well described by an overall mean field so that the motion of each nucleon is governed by the mean field due to all the other nucleons This concept underlies the Fermi gas Hartree Fock and shell models and has enabled a range of nuclear properties to be calculated often to surprising accuracy It gradually became clear however that these mean field models are limited by the effects due to the very strong interactions

between the nucleons that occur at short distances these are the short range correlations. They are responsible for instance for the high momentum components in the nucleon momentum dis tribution and prevent the simultaneous description of the nuclear density and momentum distributions by the same mean field It thus becomes necessary to develop methods for including the effects of nucleon correlations in nuclei and these are the main subject of this book Some related problems of nuclear structure were discussed in an earlier book by the same authors Nucleon Momentum and Density Distributions in Nuclei Clarendon Press Oxford 1988 The main aim of that book was to study the effects of nucleon nucleon correlations both short range and tensor on the nucleon momentum distribution which is particularly sensitive to these correl ations and on the nucleon density distribution Fermi Surface Effects in Terbium Alloys, 1976 Work is reported which was conducted to test of the relation of the generalized susceptibility and therefore the ordering properties for Tb to the Fermi energy of Tb In order to properly analyze the data a simple theory was developed to account for the effects on band structure which accompany alloying and attendant lattice size changes Using this simple theory the alloys of Tb with Mg are understood as a combination of Fermi energy lowering and of lattice contraction The tendency of Th to promote the ferromagnetic structure in Th is understood as a combination of the Fermi energy being raised and of the lattice being expanded The theory was also useful in explaining the interesting behavior of the Tb with Yb alloys which upon preliminary analysis did not seem to follow the theoretical predictions After consideration of the volume effect indeed the Tb with Yb alloys showed promotion of the helical structure as predicted The complicated behavior of the Tb with Yb alloys is a case where the volume and valence effects compete Results show that the magnetic ordering properties of the rare earths are intimately related to the Fermi surface geometry through the generalized susceptibility **Cohesion and Structure of Surfaces** K. Binder, M. Bowker, J.E. Inglesfield, P.J. Rous, 1995-12-18 During the past fifteen years there has been a dramatic increase in the number of different surfaces whose structures have been determined experimentally For example whereas in 1979 there were only 25 recorded adsorption structures to date there are more than 250 This volume is therefore a timely review of the state of the art in this dynamic field Chapter one contains a compilation of the structural data base on surfaces within a series of tables that allows direct comparison of structural parameters for related systems Experimental structural trends amongst both clean surfaces and adsorbate systems are highlighted and discussed The next chapter outlines the successes of local density functional theory in predicting the relaxations and reconstructions of clean metal and semiconductor surfaces and the behaviour of adsorbates such as hydrogen oxygen and alkali elements on metal surfaces thereby explaining some of the experimental trends observed within the database These ab initio density functional calculations are of ground state properties at the absolute zero of temperature Chapter three provides an introduction to finite temperature effects in a pedagogical review of current statistical mechanical treatments of phase transitions at surfaces many of which display the prominent role of fluctuations or non mean field behaviour The final chapter discusses the relationship of the reactivity of a surface to its

morphology and composition which is particularly relevant to a fundamental understanding of catalysis The Physics of **Superconductors** Karl-Heinz Bennemann, John B. Ketterson, 2011-06-27 This is the second volume of a comprehensive two volume treatise on superconductivity that represents the first such publication since the earlier widely acclaimed books by R Parks It systematically reviews the basic physics and recent advances in the field Leading researchers describe the state of the art in conventional phonon induced superconductivity high Tc superconductivity and in novel superconductivity including triplet pairing in the ruthenates. The second volume is largely concerned with novel superconductors such as heavy fermion metals and organic materials and also includes granular superconductors Important new results on current problems are presented in a manner designed to stimulate further research Numerous illustrations diagrams and tables make this book especially useful as a reference work for students teachers and researchers Volume 1 treats Conventional and High Tc Superconductors 3 540 43883 1 Theory of Itinerant Electron Magnetism Jürgen Kübler, 2021-09-24 This book in the broadest sense is an application of quantum mechanics and statistical mechanics to the field of magnetism Under certain well described conditions an immensely large number of electrons moving in the solid will collectively produce permanent magnetism Permanent magnets are of fundamental interest and magnetic materials are of great practical importance as they provide a large field of technological applications. The physical details describing the many electron problem of magnetism are presented in this book on the basis of the density functional approximation. The emphasis is on realistic magnets for which the equations describing properties of the many electron problem can only be solved by using computers The significant recent and continuing improvements are to a very large extent responsible for the progress in this field Along with an introduction to the density functional theory the book describes representative computational methods and detailed formulas for physical properties of magnets which include among other things the computation of magnetic ordering temperatures the giant magneto resistance magneto optical effects weak ferromagnetism the anomalous Hall and Nernst effects and novel quasiparticles such as Weyl fermions and magnetic skyrmions 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 devided 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 Scientific and Technical Aerospace Reports ,1980-10 Superconductivity in d- and f-Band Metals D. Douglass, 2012-12-06 The

occurrence of superconductivity among the d and f band metals remains one of the unsolved problems of physics The first Rochester conference on this subject in October 1971 brought together approximately 100 experimentalists and theorists and that conference was considered successful the published proceedings well represented the current research at that time and has served as a handbook to many In the four and one half years since the first conference impressive progress has been made in many areas although Berndt Matthias would be one of the first to point out that raising the maximum transition temperature by a significant amount was not one of them For a variety of reasons I decided that it was time for a Second Rochester Conference on Superconductivity in d and f Band Metals and it was held on April 30 and May 1 1976 It would appear that this conference was even more successful judging from the quality of the talks and various comments made to me I believe that this was due to the fact that the subject matter is exciting and that the timing was particularly appropriate for several areas of research that were discussed However I cannot rule out other factors such as the one advanced humorously by J **Dynamic Processes on Solid Surfaces** Kenzi Tamaru, 2013-06-29 When we see a jumbo jet at the airport we sometimes wonder how such a huge heavy plane can fly high in the sky To the extent that we think in a static way it is certainly not understandable In such a manner dynamics yields behavior quite different from statics When we want to prepare an iron nitride for example one of the most orthodox ways is to put iron in a nitrogen atmosphere under pressures higher than the dissociation pressure of the iron nitride at temperatures sufficiently high to let the nitrogen penetrate into the bulk iron This is the way thermodynamics tells us to proceed which requires an elaborate expensive high pressure apparatus sophisticated techniques and great efforts However if we flow ammonia over the iron even under low pressures we can easily prepare the nitride provided the hydrogen pressure is sufficiently low Since the nitrogen desorption rate is the determining step of the ammonia decomposition on the iron surface the virtual pressure of nitrogen at the surface can reach an extremely high level as is generally accepted because in such a dynamic system the driving force of the ammonia decomposition reaction pushes the nitrogen into the bulk iron to form the nitride Thus dynamics is an approach considerably different from statics Transport In Multilayered Nanostructures: The Dynamical Mean-field Theory Approach (Second Edition) James K Freericks, 2016-03-15 Over the last 25 years dynamical mean field theory DMFT has emerged as one of the most powerful new developments in many body physics Written by one of the key researchers in the field this book presents the first comprehensive treatment of this ever developing topic Transport in Mutlilayered Nanostructures is varied and modern in its scope and A series of over 50 problems help develop the skills to allow readers to reach the level of being able to contribute to research This book is suitable for an advanced graduate course in DMFT and for individualized study by graduate students postdoctoral fellows and advanced researchers wishing to enter the field Composite Fermions, A Unified View Of The Quantum Hall Regime Olle G Heinonen, 1998-10-15 One of the most exciting recent developments to have emerged from the quantum Hall effect is the subject of composite fermions This important volume gives a self contained

comprehensive description of the subject including fundamentals more advanced theoretical work and results from experimental observations of composite fermions Energy Research Abstracts, 1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e q Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number Properties of Complex Inorganic Solids 2 Annemarie Meike, A. Gonis, Patrice E.A. Turchi, Krishna indexes Rajan, 2012-12-06 The triennial International Alloy Conferences IACs aim at the identification and promotion of the common elements developed in the study either experimental phenomenological or theoretical and computational of materials properties across materials types from metals to minerals To accomplish this goal the IACs bring together scientists from a wide spectrum of materials science including experiment theory modeling and computation incorporating a broad range of materials properties The first IAC IAC I took place in Athens Greece June 16 21 1996 The present volume of proceedings contains the papers presented at IAC 2 that took place in Davos Switzerland August 8 13 1999 The topics in this book fall into several themes which suggest a number of different classification schemes We have chosen a scheme that classifies the papers in the volume into the categories Microstructural Properties Ordering Kinetics and Diffusion Magnetic Properties and Elastic Properties We have juxtaposed apparently disparate of revealing the dynamic character approaches to similar physical processes in the hope of the processes under consideration We hope this will invigorate new kinds of discussion and reveal challenges and new avenues to the description and prediction of properties of materials in the solid state and the conditions that produce them The Electronic Structure of Complex Systems P. Phariseau, W.M. Temmerman, 2012-12-06 We present here the transcripts of lectures and talks which were delivered at the NATO ADVANCED STUDY INSTITUTE Electronic Structure of Complex Systems held at the State University of Ghent Belgium during the period July 12 23 1982 The aim of these lectures was to highlight some of the current progress in our understanding of the electronic structure of com plex systems A massive leap forward is obtained in bandstructure calculations with the advent of linear methods The bandtheory also profitted tremendously from the recent developments in the density functional theories for the properties of the interacting electron gas in the presence of an external field of ions The means of per forming fast bandstructure calculations and the confidence in the underlying potential functions have led in the past five years or so to a wealth of investigations into the electronic properties of elemental solids and compounds The study of the trends of the electronic structure through families of materials provided invalu able insights for the prediction of new materials The detailed study of the electronic structure of specific solids was not neglected and our present knowledge of d and f metals and metal hydrides was reviewed For those systems we also investi gated the accuracy of the one electron potentials in fine

detail and we complemented this with the study of small clusters of atoms where our calculations are amenable to comparison with the frontiers of quantum chemistry calculations Nonlinearity in Condensed Matter Alan R. Bishop, David K. Campbell, Steven E. Trullinger, Pradeep Kumar, 2012-12-06 The Sixth Annual Conference of the Center for Nonlinear Studies at the Los Alamos National Laboratory was held May 5 9 1986 on the topic Nonlinearity in Condensed Matter Lessons from the Past and Prospects for the Future As conference organizers we felt that the study of non linear phenomena in condensed matter had matured to the point where it made sense to take stock of the numerous lessons to be learned from a variety of contexts where nonlinearity plays a fundamental role and to evaluate the prospects for the growth of this general discipline The successful 1978 Oxford Symposium on nonlinear soliton struc ture and dynamics in condensed matter Springer Ser Solid State Sci Vol 8 was held at a time when the ubiquity of solitons was just begin ning to be appreciated by the condensed matter community in subsequent years the soliton paradigm has provided a rather useful framework for in vestigating a large number of phenomena particularly in low dimensional systems Nevertheless we felt that the importance of nonlinearity in wider arenas than solitonics merited a significant expansion in the scope of the conference over that of the 1978 symposium Indeed many of the lessons are guite general and their potential for cross fertilization of otherwise poorly connected disciplines was certainly one of the prime motivations for this conference Thus while these proceedings contain many contributions pertaining to soliton behavior in different contexts the reader will find much more as well particularly in the later chapters

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