

Takafumi Kita

# Statistical Mechanics of Superconductivity

# Statistical Mechanics Of Superconductivity Graduate Texts In Physics

**Michio Kaku**

## **Statistical Mechanics Of Superconductivity Graduate Texts In Physics:**

Statistical Mechanics of Superconductivity Takafumi Kita, 2015-05-05 This book provides a theoretical step by step comprehensive explanation of superconductivity for undergraduate and graduate students who have completed elementary courses on thermodynamics and quantum mechanics To this end it adopts the unique approach of starting with the statistical mechanics of quantum ideal gases and successively adding and clarifying elements and techniques indispensable for understanding it They include the spin statistics theorem second quantization density matrices the Bloch De Dominicis theorem the variational principle in statistical mechanics attractive interaction and bound states Ample examples of their usage are also provided in terms of topics from advanced statistical mechanics such as two particle correlations of quantum ideal gases derivation of the Hartree Fock equations and Landau s Fermi liquid theory among others With these preliminaries the fundamental mean field equations of superconductivity are derived with maximum mathematical clarity based on a coherent state in terms of the Cooper pair creation operator a quasiparticle field for describing the excitation and the variational principle in statistical mechanics They have the advantage that the phase coherence due to the Cooper pair condensation can be clearly seen making the superfluidity comprehensible naturally Subsequently they are applied to homogeneous cases to describe the BCS theory for classic s wave superconductors and its extension to the p wave superfluidity of 3He Later the mean field equations are simplified to the Eilenberger and Ginzburg Landau equations so as to describe inhomogeneous superconductivity such as Abrikosov s flux line lattice concisely and transparently Chapters provide the latest studies on the quasiclassical theory of superconductivity and a discovery of p wave superfluidity in liquid 3He The book serves as a standard reference for advanced courses of statistical mechanics with exercises along with detailed answers

*Statistical Mechanics of Superconductivity* Takafumi Kita, 2015 This book provides a theoretical step by step comprehensive explanation of superconductivity for undergraduate and graduate students who have completed elementary courses on thermodynamics and quantum mechanics To this end it adopts the unique approach of starting with the statistical mechanics of quantum ideal gases and successively adding and clarifying elements and techniques indispensable for understanding it They include the spin statistics theorem second quantization density matrices the Bloch De Dominicis theorem the variational principle in statistical mechanics attractive interaction and bound states Ample examples of their usage are also provided in terms of topics from advanced statistical mechanics such as two particle correlations of quantum ideal gases derivation of the Hartree Fock equations and Landau s Fermi liquid theory among others With these preliminaries the fundamental mean field equations of superconductivity are derived with maximum mathematical clarity based on a coherent state in terms of the Cooper pair creation operator a quasiparticle field for describing the excitation and the variational principle in statistical mechanics They have the advantage that the phase coherence due to the Cooper pair condensation can be clearly seen making the superfluidity comprehensible naturally Subsequently they are applied to

homogeneous cases to describe the BCS theory for classic s wave superconductors and its extension to the p wave superfluidity of 3He. Later the mean field equations are simplified to the Eilenberger and Ginzburg Landau equations so as to describe inhomogeneous superconductivity such as Abrikosov s flux line lattice concisely and transparently. Chapters provide the latest studies on the quasiclassical theory of superconductivity and a discovery of p wave superfluidity in liquid 3He. The book serves as a standard reference for advanced courses of statistical mechanics with exercises along with detailed answers.

*Journal of the Physical Society of Japan* ,2016     Fluctuating geometries in statistical mechanics and field theory  
Fran ois David,Paul Ginsparg,Jean Zinn-Justin,1996 Hardbound This session of was organized with two principal purposes. Firstly to introduce a common language and culture to a mixed audience composed of field theorists string theorists condensed matter physicists and statistical mechanicians. Secondly to expose young researchers to the recent advances in various areas of theoretical physics where the concepts of extended objects geometry and fluctuations are currently playing an important role. Courses included an introduction to the problem of random paths in disordered media theoretical and numerical approaches to quantized geometries from random paths to surfaces strings to four dimensional gravity physics of amphiphilic membranes and the models of random surfaces used to describe them defects in various physical systems recent developments on the formulation of two dimensional gauge theories as string theories Problems of condensed matter physics were surveyed and a seminar on the renor

### **Laser Cooling and Trapping** Harold J. Metcalf,Peter van der

Straten,2012-12-06 Laser cooling is a relatively new technique that has led to insights into the behavior of atoms as well as confirming with striking detail some of the fundamental notions of quantum mechanics such as the condensation predicted by S N Bose. This elegant technique whereby atoms molecules and even microscopic beads of glass are trapped in small regions of free space by beams of light and subsequently moved at will using other beams provides a useful research tool for the study of individual atoms and clusters of atoms for investigating the details of chemical reactions and even for determining the physical properties of individual macromolecules such as synthetic polymers and DNA. Intended for advanced undergraduates and beginning graduate students who have some basic knowledge of optics and quantum mechanics this text begins with a review of the relevant results of quantum mechanics it then turns to the electromagnetic interactions involved in slowing and trapping atoms and ions in both magnetic and optical traps. The concluding chapters discuss a broad range of applications from atomic clocks and studies of collision processes to diffraction and interference of atomic beams at optical lattices and Bose Einstein condensation

### The Directory of Graduate Studies ,1999     **Spectral Theory and Its**

**Applications** Bernard Helffer,2013-01-17 Introduces the basic tools in spectral analysis using numerous examples from the Schr dinger operator theory and various branches of physics     Peterson's Annual Guides/graduate Study Peterson's Guides, Inc,1982     *Introduction to Superstrings and M-Theory* Michio Kaku,2012-12-06 Superstrings provocative controversial possibly untestable but unarguably one of the most interesting and active areas of research in current physics. Called by some

the theory of everything superstrings may solve a problem which has eluded physicists for the past 50 years the final unification of the two great theories of the twentieth century general relativity and quantum field theory Now here is a course tested comprehensive introductory graduate text on superstrings which stresses the most current areas of interest not covered in other presentation including string field theory multi loops Teichmueller spaces conformal field theory four dimensional strings The book begins with a simple discussion of point particle theory and uses the Feynman path integral technique to unify the presentation of superstrings Prerequisites are an acquaintance with quantum mechanics and relativity This second edition has been revised and updated throughout

**Geometry, Particles, and Fields** Bjoern

Felsager,2012-12-06 Geometry Particles and Fields is a direct reprint of the first edition From a review of the first edition The present volume is a welcome edition to the growing number of books that develop geometrical language and use it to describe new developments in particle physics It provides clear treatment that is accessible to graduate students with a knowledge of advanced calculus and of classical physics The second half of the book deals with the principles of differential geometry and its applications with a mathematical machinery of very wide range Here clear line drawings and illustrations supplement the multitude of mathematical definitions This section in its clarity and pedagogy is reminiscent of *Gravitation* by Charles Misner Kip Thorne and John Wheeler Felsager gives a very clear presentation of the use of geometric methods in particle physics For those who have resisted learning this new language his book provides a very good introduction as well as physical motivation The inclusion of numerous exercises worked out renders the book useful for independent study also I hope this book will be followed by others from authors with equal flair to provide a readable excursion into the next step

**PHYSICS TODAY** Bjoern Felsager is a high school teacher in Copenhagen Educated at the Niels Bohr Institute he has taught at the Universities of Copenhagen and Odense

*Conformal Field Theory* Philippe Francesco,Pierre Mathieu,David

Sénéchal,1997 Filling an important gap in the literature this comprehensive text develops conformal field theory from first principles The treatment is self contained pedagogical and exhaustive and includes a great deal of background material on quantum field theory statistical mechanics Lie algebras and affine Lie algebras The many exercises with a wide spectrum of difficulty and subjects complement and in many cases extend the text The text is thus not only an excellent tool for classroom teaching but also for individual study Intended primarily for graduate students and researchers in theoretical high energy physics mathematical physics condensed matter theory statistical physics the book will also be of interest in other areas of theoretical physics and mathematics It will prepare the reader for original research in this very active field of theoretical and mathematical physics

**Peterson's Guide to Graduate Programs in the Physical Sciences and Mathematics** ,1991

**Classical Analogies in the Solution of Quantum Many-Body Problems** Aydin Cem Keser,2018-11-07 This book addresses problems in three main developments in modern condensed matter physics namely topological superconductivity many body localization and strongly interacting condensates superfluids by employing fruitful analogies from classical

mechanics This strategy has led to tangible results firstly in superconducting nanowires the density of states a smoking gun for the long sought Majorana zero mode is calculated effortlessly by mapping the problem to a textbook level classical point particle problem Secondly in localization theory even the simplest toy models that exhibit many body localization are mathematically cumbersome and results rely on simulations that are limited by computational power In this book an alternative viewpoint is developed by describing many body localization in terms of quantum rotors that have incommensurate rotation frequencies an exactly solvable system Finally the fluctuations in a strongly interacting Bose condensate and superfluid a notoriously difficult system to analyze from first principles are shown to mimic stochastic fluctuations of space time due to quantum fields This analogy not only allows for the computation of physical properties of the fluctuations in an elegant way it sheds light on the nature of space time The book will be a valuable contribution for its unifying style that illuminates conceptually challenging developments in condensed matter physics and its use of elegant mathematical models in addition to producing new and concrete results

*New Technical Books* New York Public Library,1992    [Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment, and Natural Resources 2009](#) Peterson's,2007-11 The six volumes of Peterson's Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 4 contains more than 3 800 programs of study in 56 disciplines of the physical sciences mathematics agricultural sciences the environment and natural resources    [The Annual Guides to Graduate Study ,1973](#)    **[The Students' Guide to Graduate Studies in the UK 1994](#)** ,1993    **[General Catalogue](#)** University of California, Santa Barbara,1966    **[The Students' Guide to Graduate Studies in the UK ,1993](#)**  
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