

# **Mechanisms of Conventional and High $T_c$ Superconductivity**

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# Mechanisms Of Conventional And High Tc Superconductivity

**S. MOHAN**



## **Mechanisms Of Conventional And High Tc Superconductivity:**

**Mechanisms of Conventional and High Tc Superconductivity** Vladimir Zino'evich Kresin,H. Morawitz,Stuart A. Wolf,2023 Presents the methods established results and advances in the field of superconductivity including phonic magnetic and electronic models The authors focus on the phenomenon of induced superconductivity in the high temperature high Tc oxides particularly the high transition temperature cuprates

**Mechanisms of Conventional and High Tc Superconductivity** Vladimir Z. Kresin,Hans Morawitz,Stuart A. Wolf,1993-06-17 Superconductivity has become one of the most intensely studied physical phenomena of our times with tremendous potential to revolutionize fields as diverse as computing and transportation This book describes the methods established results and recent advances in the field The goal is to present recently developed theoretical models in light of the long sought aim of achieving the effect at very high temperatures The book includes a detailed review of various mechanisms including phononic magnetic and electronic models The authors focus on the phenomenon of induced superconductivity in the high temperature oxides particularly the high transition temperature cuprates They also discuss a variety of low temperature superconducting systems in conventional materials and organics The book links the crucial experiments with the most current theories offering a unified description of the phenomenon All researchers and graduate level students involved with work in superconductivity will find this an invaluable resource including solid state and condensed matter physicists and chemists and materials scientists

Spectroscopy of High-Tc Superconductors N.M. Plakida,2003-03-20 Despite ten years of intensive research many questions remain unanswered concerning the nature of the electronic structure Fermi vs non Fermi liquid and mechanisms of superconductivity Spectroscopy of High Tc Superconductors A Theoretical View provides a current comprehensive review of the experimental results and theoretical interpre

High-Temperature Cuprate Superconductors Nikolay Plakida,2010-08-26 High Temperature Cuprate Superconductors provides an up to date and comprehensive review of the properties of these fascinating materials The essential properties of high temperature cuprate superconductors are reviewed on the background of their theoretical interpretation The experimental results for structural magnetic thermal electric optical and lattice properties of various cuprate superconductors are presented with respect to relevant theoretical models A critical comparison of various theoretical models involving strong electron correlations antiferromagnetic spin fluctuations phonons and excitons provides a background for understanding of the mechanism of high temperature superconductivity Recent achievements in their applications are also reviewed A large number of illustrations and tables gives valuable information for specialists A text book level presentation with formulation of a general theory of strong coupling superconductivity will help students and researches to consolidate their knowledge of this remarkable class of materials

High-Tc Copper Oxide Superconductors and Related Novel Materials Annette Bussmann-Holder,Hugo Keller,Antonio Bianconi,2017-03-24 Authored by many of the world s leading experts on high Tc superconductivity this volume presents a

panorama of ongoing research in the field as well as insights into related multifunctional materials. The contributions cover many different and complementary aspects of the physics and materials challenges with an emphasis on superconducting materials that have emerged since the discovery of the cuprate superconductors for example pnictides MgB<sub>2</sub> H<sub>2</sub>S and other hydrides. Special attention is also paid to interface superconductivity. In addition to superconductors the volume also addresses materials related to polar and multifunctional ground states another class of materials that owes its discovery to Prof Müller's ground breaking research on SrTiO<sub>3</sub>.

**Nuclear and Atomic Physics at One GigaFlop** C. Bottcher, M. R. Strayer, J. B. McGroarty, 1989. Proceedings of a workshop held at Oak Ridge Tennessee April 1988 deal with problems in atomic and nuclear physics that require access to supercomputing at effective rates of one gigaFlop or more. Topics include strong fields quarks the few body problem heavy ion collisions nuclear hydrodynamics Monte Carlo techniques and more. No subject index. Acidic paper. Annotation copyrighted by Book News Inc Portland OR.

**Disordered Materials** Stadford R. Ovshinsky, 2012-12-06. Landmark contributions to science and mechanisms for the origin of the phenomena and technology are rarely recognized at the time of reached important conclusions about the physical publication. Few people even in technical areas nature of the materials at equilibrium and their recognized the importance of developments such as electronic nonequilibrium properties. Many of these the transistor the laser or electrophotography ideas were condensed into a publication for Physical until well after their successful demonstration. Review Letters paper 1 in this collection. This So called experts in fact tend to resist new paper immediately attracted attention to the field inventions a natural instinct based on a combination and directly lead to the initiation of large research. tion of fear of obsolescent expertise and jealousy efforts at both industrial laboratories and universities arising from lack of active participation in the ties throughout the world. Inevitably there was discovery the usual amount of controversy with many experts. Denigration of new ideas is a relatively simultaneously taking positions 2 and 3 above safe modus operandi since the vast majority. It has now been well over 20 years since eventually are abandoned well short of commerciality the original publication date and an objective view. However a successful device can be identified by can be taken in hindsight.

**Lattice Effects In High Tc Superconductors - Proceedings Of The Conference** T Egami, A R Bishop, J Mustre De Leon, Yaneer Bar-yam, 1992-12-21. The focus of the workshop is the role of crystal lattices i.e atomic structure phonons lattice distortions in the mechanism of high temperature superconductivity in oxides. In spite of the intense research effort during the last five years the mechanism of high temperature superconductivity still remains unknown. While earlier theories focused primarily on the role of magnetic interaction recent experimental results strongly suggest that anharmonic local atomic displacements in particular those induced by charge carriers are critically involved in creating high temperature superconductivity. In this workshop experimentalists and theoreticians address this issue with the hope of stimulating real progress in this area.

**High TC Update**, 1993. *Underneath the Bragg Peaks* Takeshi Egami, Simon J.L. Billinge, 2003-10-02. Table of contents

*Statistical Physics: Fundamentals And Application To Condensed Matter* Hung-the Diep, 2015-06-29 The aim of this book is to provide the fundamentals of statistical physics and its application to condensed matter The combination of statistical mechanics and quantum mechanics has provided an understanding of properties of matter leading to spectacular technological innovations and discoveries in condensed matter which have radically changed our daily life The book gives the steps to follow to understand fundamental theories and to apply these to real materials

**Quantum Theory of Solids** Eoin O'Reilly, 2017-12-21 Quantum Theory of Solids presents a concisely structured tour of the theory relating to chemical bonding and its application to the three most significant topics in solid state physics semiconductors magnetism and superconductivity topics that have seen major advances in recent years This is a unique treatment that develops the concepts of quantum theory for the solid state from the basics through to an advanced level encompassing additional quantum mechanics techniques such as the variational method and perturbation theory Written at the senior undergraduate masters level it provides an exceptional grounding in the subject

**High-Temperature Superconductors** Ajay Kumar Saxena, 2012-07-10 This book presents the current knowledge about superconductivity in high Tc cuprate superconductors There is a large scientific interest and great potential for technological applications The book discusses all the aspects related to all families of cuprate superconductors discovered so far Beginning with the phenomenon of superconductivity the book covers the structure of cuprate HTSCs critical currents flux pinning synthesis of HTSCs proximity effect and SQUIDs possible applications of high Tc superconductors and theories of superconductivity Though a high Tc theory is still awaited this book describes the present scenario and BCS and RVB theories The second edition was significantly extended by including film substrate lattice matching and buffer layer considerations in thin film HTSCs brick wall microstructure in the epitaxial films electronic structure of the CuO<sub>2</sub> layer in cuprates s wave and d wave coupling in HTSCs and possible scenarios of theories of high Tc superconductivity

**Superconductors** A. V. Narlikar, 2014-04 Unusual and unconventional features of a large variety of novel superconductors are presented and their technological potential as practical superconductors assessed

**Advances in High Temperature Superconductors and their applications** S. MOHAN, 2019-06-20 Prof Heike Kamerlingh Onnes discovered superconductivity while measuring resistivity of mercury Surprisingly the resistivity of mercury ceased at 4.2 K and this phenomenon was known as superconductivity He realized the importance of this discovery in producing large magnetic fields It was realized that superconductivity is in a new thermodynamic state with peculiar electric and magnetic properties This paved the way to discover more superconductors Simple elements such as Tin Indium or lead showed the highest critical temperature Tc 7.2 K They were called as Type I superconductors Niobium nitride was found to superconduct at 16 K at 1941 and Vanadium silicon showed superconductive properties at 17.5 K at 1953 Nb alloys and binary or more complex compounds such as Nb<sub>3</sub>Sn Tc 18 K Nb Ti Tc 9 K Ga V with Tc 23 K became type II superconductors Thereafter there was not much improvement in the development of

superconductor although wonderful applications were expected from superconductors After three decades Fullerenes like ceramic superconductors are discovered A decade ago MgB<sub>2</sub> was discovered with T<sub>c</sub> 39 K These superconductors were routinely produced into form of wires for producing larger magnetic fields In all these cases cooling was effectively done by liquid Helium A comprehensive microscopic theory of superconductivity in metals was proposed in 1957 by John Bardeen Leon Cooper and Robert Schrieffer the so called BCS theory for which they received the Nobel Prize in Physics In a major breakthrough George Bednorz and Karl Mueller discovered a brittle ceramic superconductivity in the family of cuprates at 30 K in 1986 and a new era began Inspired by the work of Bednorz and Mueller on high temperature superconductivity HTS Paul Chu and his associates at the University of Houston discovered in 1987 123 compounds That is YBCO Yttrium<sub>1</sub> Barium<sub>2</sub> Copper<sub>3</sub> Oxygen<sub>7</sub> and iso structural RBCO Rare earth<sub>1</sub> Barium<sub>2</sub> Copper<sub>3</sub> Oxygen<sub>7</sub> have a T<sub>c</sub> of 93 K Prior to 1987 all superconducting materials had lower critical temperatures T<sub>c</sub>s and therefore functioned only at temperatures near the boiling point of liquid helium 4.2 K or liquid hydrogen 20.28 K with the highest being Nb<sub>3</sub>Ge at 23 K They were known as low temperature superconductors YBCO was the first material to become superconducting above 77 K boiling point of liquid nitrogen and subsequently a series of high temperature superconducting materials were discovered These superconducting materials are widely known as High temperature superconductors as these T<sub>c</sub>s exceeded the limit prescribed by BCS theory HTSCs are potentially valuable as liquid nitrogen is cheaper than liquid helium YBCO possesses superior superconducting and physical properties YBCO receiver coils in NMR spectrometers have improved the resolution NMR spectrometers by a factor of 3 compared to that achievable with conventional coils Paul Chu's group holds the current T<sub>c</sub> record of 164 K in the mercury barium based cuprate superconductor under pressure Their work led to a rapid succession of new high temperature superconducting materials ushering in a new era in material science chemistry and technology Added to this the structure of Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>2</sub>O<sub>10</sub> BiSCCO high temperature superconductive compound having T<sub>c</sub> 110 K was reported In 1993 mercuric cuprates perovskite ceramic superconductors with the transition temperatures T<sub>c</sub> 138 K was also reported

Neutron Scattering - Magnetic and Quantum Phenomena, 2015-11-29 Neutron Scattering Magnetic and Quantum Phenomena provides detailed coverage of the application of neutron scattering in condensed matter research The book's primary aim is to enable researchers in a particular area to identify the aspects of their work where neutron scattering techniques might contribute conceive the important experiments to be done assess what is required to carry them out write a successful proposal for one of the major user facilities and perform the experiments under the guidance of the appropriate instrument scientist An earlier series edited by Kurt Skold and David L Price and published in the 1980s by Academic Press as three volumes in the series Methods of Experimental Physics was very successful and remained the standard reference in the field for several years This present work has similar goals taking into account the advances in experimental techniques over the past quarter century for example neutron reflectivity and spin echo spectroscopy and techniques for probing the dynamics of

complex materials of technological relevance This volume complements Price and Fernandez Alonso Eds Neutron Scattering Fundamentals published in November 2013 Covers the application of neutron scattering techniques in the study of quantum and magnetic phenomena including superconductivity multiferroics and nanomagnetism Presents up to date reviews of recent results aimed at enabling the reader to identify new opportunities and plan neutron scattering experiments in their own field Provides a good balance between theory and experimental techniques Provides a complement to Price and Fernandez Alonso Eds Neutron Scattering Fundamentals published in November 2013

**High Tc Superconductors and Related Transition Metal Oxides** Annette Bussmann-Holder, Hugo Keller, 2007-03-29 This book presents theoretical as well as experimental articles focused on recent new results in high temperature superconductivity All contributors are high ranking scientists who have done major work to enhance the understanding of this phenomenon A few articles deal with ferroelectricity and its applications The book is dedicated to Prof Dr K Alex Müller on his 80th birthday During his scientific career he made major advances in the understanding of ferroelectricity

*Introductory Solid State Physics* David C. Johnston, 2025-05-07 Introductory Solid State Physics An Emphasis on Magnetism acts as a supplement to students tackling solid state physics at both the undergraduate and graduate level The BCS theory of superconductivity is not included in undergraduate level books because the theory is derived at the graduate level However this book uses the equations derived by BCS to calculate the thermodynamic properties of superconductors such as the temperature dependence of the heat capacity using techniques accessible to undergraduates Also covering topics such as wave diffraction the essentials of thermodynamics statistical mechanics and local moment magnetism it is useful for those studying solid state physics at any level

**Key Features** Includes the BCS theory of superconductivity Provides material that is accessible to students at all levels Approaches the subject with a particular emphasis on magnetism

**The Multifaceted Skyrmion** Manque Rho, Ismail Zahed, 2016-09-29 This book presents in the form of reviews by world's leading physicists in wide ranging fields in theoretical physics the influence and prescience of Skyrme's daring idea of 1960 originally conceived for nuclear physics that fermions can arise from bosons via topological solitons pervasively playing a powerful role in wide ranging areas of physics from nuclear astrophysics to particle physics to string theory and to condensed matter physics The skyrmion description both from gauge theory and from gauge gravity duality offers solutions to some long standing and extremely difficult problems at high baryonic density inaccessible by QCD proper It also offers explanations and makes startling predictions for fascinating new phenomena in condensed matter systems In both cases what is at the core is the topology although the phenomena are drastically different even involving different spacetime dimensions This second edition has been expanded with addition of new reviews and extensively updated to take into account the latest developments in the field

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