

Applications of high temperature superconductors

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Most of us are familiar with the basic idea of superconductivity, that a superconductor can carry a current indefinitely in a closed loop, without resistance and with no voltage appearing. In a normal metal, such as copper, the free electrons act independently. They will move under the influence of a voltage to form a current, but are scattered off defects and impurities in the metal. This scattering results in energy losses and constitutive resistance. In a superconducting metal, such as niobium, resistance does not occur, because under the right conditions the electrons no longer act as individuals, but merge into a collective entity that is too large to 'see' any imperfections. This collective entity, often described as a Bose condensate, can be described by a single macroscopic quantum mechanical wave function. Similar condensates are behind the peculiar behaviour seen in superfluid helium and in very cold gases of trapped rubidium atoms.

History of superconductivity

Superconductivity is not a new phenomenon. H. Kamerlingh-Onnes first demonstrated it in 1911 with his finding that resistance dropped to zero in a sample of mercury held at or below 4 K. This sudden drop in resistance, shown in Fig. 1, is characteristic of all superconductors. A number of metals besides mercury (including tin and lead, but not including magnetic metals or very good normal conductors such as copper and gold), as well as certain alloys and intermetallic compounds were also soon found to be superconducting at similar low temperatures. Above the transition or critical temperature T_c , the metal or alloy behaved as a normal conductor. Even below the critical temperature, the material would revert to normal if a critical magnetic field or critical current were exceeded. The surface plotted in Fig. 2 defines the critical temperature, field and current for a bismuth-based superconductor. Until 1986 the record critical temperature was 23 K for Nb₃Ge. Two classes of superconductor were recognised. Type I, usually the pure metals, had an abrupt transition from the superconducting to the normal state. Type II superconductors also allowed for a mixed state with normal and superconducting regions coexisting. Other important superconductor properties were discovered during the course of the last century, such as the exclusion of magnetic flux lines (the Meissner effect), which is responsible for magnetic levitation, as shown in Fig. 3, and quantum mechanical tunnelling over a narrow gap between two superconductors (the Josephson effect), which is used in extremely sensitive magnetometers.

The discovery of superconductivity soon generated interest in practical applications, mainly because of its potential to save energy. Indeed the replacement of copper or other normal conductors by superconducting materials avoids heat dissipation and other energy losses due to finite resistance. In some types of equipment such as

magnetic separators, these losses may account for most of the energy consumed in the device. Early prototypes for motors, transmission lines and energy storage magnets were developed, but they were never widely accepted. There were important reasons for this, apart from the tremendous investment in existing technology. In most superconducting metals and alloys the superconductivity tends to fall in self-generated magnetic fields when the current densities through them are increased to practical levels. A second problem was the cost and complexity of operating refrigeration equipment near liquid helium temperatures (4 K, -269°C). Removing one watt of heat generated at 4 K demands about 1000 W of refrigeration power at room temperature.

While applications were stalled, progress was still being made in theoretical models. The London theory (1935) and the subsequent Ginzburg-Landau (GL) theory including quantum effects were phenomenological. These theories did not attempt to explain superconductivity on a microscopic level, but achieved good success in describing supercurrent behaviour. The BCS theory (1957) of Bardeen, Cooper and Schrieffer was a detailed microscopic theory that was quickly accepted as an explanation for the condensate in the superconductors that were known at the time. Such a condensate requires that the particles composing it be bosons, that is, have integral spin. Bosons obey Bose-Einstein statistics. Below the critical temperature the bosons in a superconductor can all gather together in the lowest possible energy state to form the condensate, and the greater the number that have accumulated, the harder it is for one of them to leave. Electrons are not bosons because they do not have integral spin. BCS theory

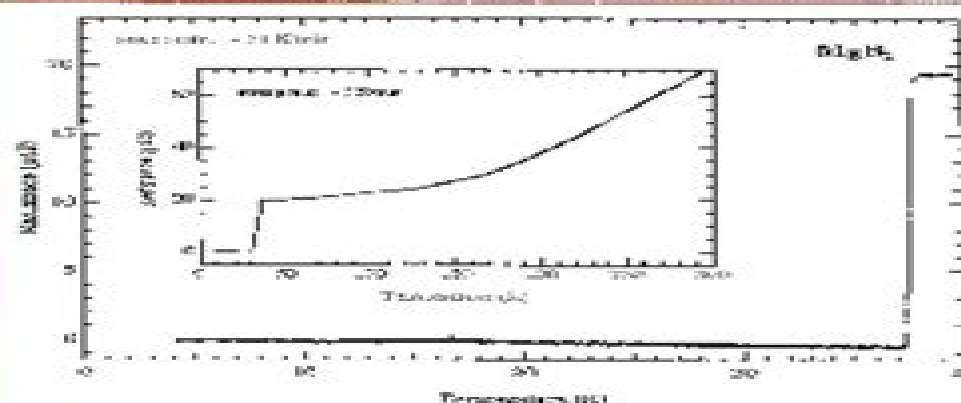


Fig. 1: A drop to zero resistance at the critical temperature is seen in all superconductors, including the newly discovered superconductor MeB_2 . Figure courtesy of R.A. Lewis and A.D. Martin, ISEM.

Phenomenology And Applications Of High Temperature Superconductors

X G Qiu

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Poursartip, Ken Street, 1996-07 **Introduction to Superconductivity** Michael Tinkham, 2004-01-01 Well known for its accessibility to graduate students and experimental physicists this volume emphasizes physical arguments and minimizes theoretical formalism The second edition of this classic text features revisions by the author that improve its user friendly qualities and an introductory survey of latter day developments in classic superconductivity enhances the volume's value as a reference for researchers Starting with a historical overview the text proceeds with an introduction to the electrodynamics of superconductors and presents expositions of the Bardeen Cooper Schrieffer theory and the Ginzburg Landau theory Additional subjects include magnetic properties of classic type II superconductors the Josephson effect both in terms of basic phenomena and applications and of the phenomena unique to small junctions fluctuation effects in classic superconductors the high temperature superconductors special topics such as the Bogoliubov method magnetic perturbations and gapless superconductivity and time dependent Ginzburg Landau theory and nonequilibrium superconductivity 1996 edition

Selected Topics On Superconductivity L C Gupta, Manu S Multani, 1993-04-30 Contents The First Five Years of High Tc Superconductivity K A Mller Different Factors which Govern the Optimisation of High Tc Superconductive Cuprates Involving Bi Tl or Pb B Raveau M Hervieu C Michel J Provost A Maignan C Simon D Groult Superconductivity in Cuprates and Other Oxides H R Ott Organic Superconductors with Tc Higher than 10K T Ishiguro Y Nogami Fundamentals of RVB Theory and Some Applications to High Temperature Superconductors G Baskaran Anyons and Superconductivity S Das Sarma Mott Transition in the Hubbard Model B S Shastry Superconducting Pairing in Layered Superconductors S S Jha Breaking the Log Jam in Many Body Physics Fermi Surfaces Without Fermi Liquids P W Anderson Superconductivity in High Magnetic Fields from a Microscopic Theory A K Rajagopal Nonequilibrium Superconductivity R Tidecks Neutron Scattering Study of the High Tc Superconducting System YBa₂Cu₃O_{6-x} J Rossat Mignod et al Crystal Field Excitations in High Tc Superconducting Materials A Furrer Superconducting Granular Films S I Kobayashi Transport Properties in the Mixed State of High Temperature Superconductors A Freimuth Physics of Josephson Effect and Recent Advances A Barone S Pagano Tunneling Spectroscopy of Copper Oxide Superconductors T Ekino J Akimitsu Superconductivity and Magnetism in Heavy Fermion Compounds F Steglich U Ahlheim C D Bredl C Geibel M Lang A Loidl G Sparn Nuclear Magnetic Resonance Studies in Highly Correlated Systems Heavy Fermion and High Tc Superconductors K Asayama Pulsed Laser and Cylindrical Magnetron Sputter Deposition of Epitaxial Metal Oxide Thin Films T Venkatesan et al Readership Physicists chemists and engineers keywords **Hts Materials, Bulk Processing And Bulk Applications - Proceedings Of The 1992 Tcsuh Workshop**

Ching Wu Chu, Kamel Salama, Pei Herng Hor, Wei-kan Chu, 1992-11-20 The purpose of this Workshop was to define the

current and future material needs for both scientific and technological purposes Recent Developments in High Temperature Superconductivity Jan Klamut, 1996-09-17 This book contains review articles presenting the current status of high temperature superconductivity research The articles cover synthesis issues materials properties and most fundamental theoretical problems Applications of high temperature superconductors are also reflected in several contributions The book addresses researchers working in fundamental research in solid state physics as well as engineers developing new materials for industrial applications **Physics of High-Temperature Superconductors** Sadamichi Maekawa, Masatoshi Sato, 2012-12-06 Advances through carefully conducted quantitative work on well designed high quality materials characterize the present state of high temperature superconductivity research The contributions to this volume present a theoretical and experimental overview of electronic structure and physical properties including anisotropic features of high temperature materials with a focus on cuprates In order to enhance the understanding of the mechanisms of superconductivity at high temperatures this volume is divided into theoretical and experimental parts The contributions to the two parts correspond to each other giving readers involved in either area of research activity a reference to findings of the other On the other hand this book gives young physicists high level information on the present state of research enhanced by tutorial contributions of leading physicists in the field **Physics and Materials Science of Vortex States, Flux Pinning and Dynamics** R. Kossowsky, Shyamalendu Bose, Zafer Durusoy, Vladimir Pan, 1999-04-30 A discussion by an assembly of expert physicists and materials scientists embracing the specific features of vortex pin interactions the modes of different kinds of vortex motion under the action of Lorentz force and the mechanisms of dissipation The effects of transport and screening currents superimposed AC magnetic fields and the microwave electromagnetic irradiation on vortex behaviour define the electromagnetic properties of a high T_c superconducting material The mechanisms driving the depinning of vortices and the dynamics of their motion determine the critical current density and its field dependence the mechanisms of energy dissipation and linear and nonlinear resistivity AC losses and noise in electronic circuitry The book therefore has direct implications for the development of new devices and components in electrical engineering modern electronics computer technology and microwave communication **Third International Symposium on Magnetic Suspension Technology**, 1996 Materials for Sustainable Energy Applications David Munoz-Rojas, Xavier Moya, 2017-03-27 The impending energy crisis brought on by the running out of finite and non homogeneously distributed fossil fuel reserves and the worldwide increase in energy demand has prompted vast research in the development of sustainable energy technologies in the last few decades However the efficiency of most of these new technologies is relatively small and therefore it needs to be increased to eventually replace conventional technologies based on fossil fuels The required efficiency increase primarily relies on the ability to improve the performance of the functional materials which are at the heart of these technologies The purpose of this book is to give a unified and comprehensive presentation of the fundamentals and the use and design of novel

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Seeber, 1998-01-01 The Handbook of Applied Superconductivity Two Volume Set covers all important aspects of applied superconductivity and the supporting low temperature technologies The handbook clearly demonstrates the capabilities of superconducting technologies and illustrates how to implement these technologies in new areas of academic and industrial research and development Volume One provides an introduction to the theoretical background of both low and high T_c superconductivity followed by details of the basic hardware such as wires tapes and cables used in applications of superconductivity and the necessary supporting science and technology Theoretical discussions are in most cases followed by examples of real designs fabrication techniques and practical instrumentation guidance A final chapter examines materials properties at low temperatures Volume Two provides examples of current and future applications of superconductivity It covers medical systems for magnetic resonance imaging MRI high field magnets for research superconducting magnets for accelerators industrial systems for magnetic separation and transportation systems The final chapters look to future applications in power and superconducting electronics With fully referenced peer refereed contributions from experts in various fields this two volume work is an essential reference for a wide range of scientists and engineers in academic and industrial research and development environments Superconductivity Karl-Heinz Bennemann, John B.

Ketterson, 2008-04-25 This extensive and comprehensive handbook systematically reviews the basic physics theory and recent advances in superconductivity Covering the entire field this unparalleled resource carefully blends theoretical studies with experimental results to provide an indispensable foundation for further research Leading researchers including Nobel laureates describe the state of the art in conventional and unconventional superconductors In addition to full coverage of novel materials and underlying mechanisms the handbook reflects continued intense research into electron phone based superconductivity **From Nanostructures to Nanosensing Applications** A. D'Amico, G. Balestrino, A.

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High-Temperature Superconductors X G Qiu,2011-03-28 High temperature superconductors have received a great deal of attention in recent years due to their potential in device and power applications This book summarises the materials science and physics of all the most important high temperature superconductors as well as discussing material growth properties and applications Part one covers fundamental characteristics of high temperature superconductors and high TC films such as deposition technologies growth transport properties and optical conductivity Part two is concerned with growth techniques and properties of high temperature superconductors including YBCO BSCCO and HTSC high TC films and electron doped cuprates Finally part three describes the various applications of high temperature superconductors from Josephson junctions and dc superconductive quantum inference devices dc SQUIDS to microwave filters With its distinguished editor and international team of contributors this book is an invaluable resource for those researching high temperature superconductors in industry and academia In light of the many recent advances in high temperature superconductors it will benefit physicists materials scientists and engineers working in this field as well as in areas of industrial application such as electronic devices and power transmission Summarises the materials science and physics of all the most important high temperature superconductors Discusses material growth properties and applications Outlines fundamental characteristics of high temperature superconductors and high TC films

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