

## Basic superconductivity (II)

Critical temperature  $T_c$  of some superconductors at atmospheric pressure.

Material	Symbol	$T_c$ (Kelvin)
Aluminium	$^{27}_{13}\text{Al}$	1.19
Tin	$^{119}_{50}\text{Sn}$	3.72
Mercury	$^{201}_{80}\text{Hg}$	4.16
Lead	$^{208}_{82}\text{Pb}$	7.20
Neodymium	$^{143}_{60}\text{Nb}$	9.30

In 1986 Karl Alex Müller and Johannes Georg Bednorz discovered **high- $T_c$  superconductors**. These ceramic materials (cuprates) can reach the critical temperature of 133 Kelvin.

For these high- $T_c$  superconductors the mechanisms which give rise to **pairing of electrons** are not fully understood.

# Rise Of Superconductivity

**Helga Nowotny, Ulrike Felt**



## **Rise Of Superconductivity:**

**The Rise of the Superconductors** P.J. Ford, G.A. Saunders, 2004-10-28 High temperature superconductors are one of the most active and exciting areas of condensed matter physics research. From high quality thin films to frictionless transportation, their applications in industries such as telecommunications, environment and geology, medicine, nuclear physics, and security are just the beginning. *The Rise of the Superconductors* is an ideological chronology of the science that has produced superconductors. Beginning with the first liquefaction of helium, the book presents the discovery of the Meissner effect and the development of type II superconductors before discussing the impact of Bednorz and Müller's Nobel prize-winning research in high temperature ceramic superconductors. Authors seamlessly introduce the rise of Tc materials whose layer-like nature, anisotropic behavior, and other properties are discussed in Chapter 4. The next chapter is devoted to the discovery, development, and characteristics of organic superconductors, particularly in fullerene materials whose discovery earned the Nobel Prize in Chemistry in 1996. The authors then examine the properties and theoretical developments explaining the behavior of simple superconductors, highlighting their impact on theoretical physics. Subsequent chapters analyze the technological advances, production challenges, and future directions of large and small scale applications: Josephson effects, the development of SQUID technology, and the specific behavior of high temperature superconductors. *The Rise of the Superconductors* concludes with a brief look at the struggle for technical superiority between the U.S. and Japan, European contributions, and commentary on the current state of the art.     Epitaxial Growth of Complex Metal Oxides

Gertjan Koster, Mark Huijben, Guus Rijnders, 2022-04-22 *Epitaxial Growth of Complex Metal Oxides* Second Edition reviews techniques and recent developments in the fabrication of complex metal oxides, which are facilitating advances in electronic, magnetic, and optical applications. Sections review the key techniques involved in the epitaxial growth of complex metal oxides and explore the effects of strain and stoichiometry on crystal structure and related properties in thin film oxides. Finally, the book concludes by discussing selected examples of important applications of complex metal oxide thin films, including optoelectronics, batteries, spintronics, and neuromorphic applications. This new edition has been fully updated with brand new chapters on topics such as atomic layer deposition, interfaces, STEM EELS, and the epitaxial growth of multiferroics, ferroelectrics, and nanocomposites. Examines the techniques used in epitaxial thin film growth for complex oxides, including atomic layer deposition, sputtering, molecular beam epitaxy, and chemical solution deposition techniques. Reviews materials design strategies and materials property analysis methods, including the impacts of defects, strain, interfaces, and stoichiometry. Describes key applications of epitaxially grown metal oxides, including optoelectronics, batteries, spintronics, and neuromorphic applications.     *Thermodynamics and Statistical Physics Handbook* Pasquale De Marco, 2025-07-24

*Thermodynamics and Statistical Physics Handbook* is a comprehensive introduction to thermodynamics and statistical physics. Written for students and researchers in physics, chemistry, and engineering, the book provides a clear and concise

overview of the fundamental concepts and applications of these two closely related fields Thermodynamics is the study of the relationship between heat and other forms of energy while statistical physics provides a microscopic explanation of the macroscopic properties of matter Together these two disciplines provide a powerful framework for understanding the behavior of matter at all scales from the smallest atoms and molecules to the largest galaxies Thermodynamics and Statistical Physics Handbook begins with a review of the basic concepts of thermodynamics and statistical physics The book then discusses the applications of these concepts to a variety of real world problems including the design of heat engines refrigerators and air conditioners The book also discusses the use of thermodynamics and statistical physics in the study of chemical reactions materials science and biology The book is divided into 10 chapters each of which covers a specific topic in thermodynamics and statistical physics The chapters are Overview of thermodynamics and statistical physics Laws of thermodynamics Statistical physics of gases Statistical physics of solids Statistical physics of liquids Statistical physics of surfaces Statistical physics of mixtures Statistical physics of electrolytes Statistical physics of irreversible processes Advanced topics in thermodynamics and statistical physics Each chapter includes a number of worked examples and exercises to help students understand the concepts discussed in the chapter The book also includes a comprehensive index to help readers find the information they need quickly and easily Thermodynamics and Statistical Physics Handbook is a valuable resource for students and researchers in physics chemistry and engineering The book provides a clear and concise overview of the fundamental concepts and applications of thermodynamics and statistical physics and it includes a wealth of worked examples and exercises to help students understand the material If you like this book write a review

**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

**Vibronic Interactions: Jahn-Teller Effect in Crystals and Molecules** Michael D. Kaplan, George O. Zimmerman, 2012-12-06 This book is based mostly on the reports presented at the XVth International Jahn Teller Symposium on Vibronic Interactions in Crystals and Molecules and NATO Advanced Research Workshop Colossal Magnetoresistance and Vibronic Interactions that took place at Boston on August 16-22 of the year 2000 This is the first time the Symposium took place in the USA where recently the giant splash of the attention to the Jahn Teller effect occurred This tremendous interest to the field all over the world is reflected not only in the numerous publications in many American and European journals but

of the leading scientists from additionally in the Symposium's participation the well known Universities National Laboratories and industrial companies which was the largest in the history of the Symposium The renaissance of the 1940s Teller physics is closely related to the three fundamental discoveries in science The most significant among them is the discovery of high  $T_c$  superconductivity by K A Muller and G Bednorz for whom the 1940s Teller idea was the motivation in their search The result of this search is well known a wide spectrum of the 1940s Teller ion based materials with  $T_c$  between 24K and 135K were found The second discovery is the existence of a new polymorph of carbon the C60 The microscopic analysis of all physical chemical and biological properties of the buckyballs is based on 1940s Teller type of interactions The third is colossal magnetoresistance

**Los Alamos Science** ,1984     *Energy Research Abstracts* ,1989     Nuclear rocket (Rover); space electric power; physical research; raw materials; isotopes development; biology and medicine; Plowshare; special nuclear materials; community; program direction and administration; training, education, and information; and weapons United States. Congress. Joint Committee on Atomic Energy,1968     *Hearings, Reports and Prints of the Joint Committee on Atomic Energy* United States. Congress. Joint Committee on Atomic Energy,1968     **AEC Research and Development Report** Atomic Energy Commission,     **AEC Authorizing Legislation** United States. Congress. Joint Committee on Atomic Energy,1968     *Energy Research Abstracts* ,1991 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 g 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 indexes     *Condensed Matter Theories* Susana Hernandez,John W. Clark, Jr.,2002-01-25 Drawn from the 24th International Workshop on Condensed Matter Theories Buenos Aires Sep 2000 these 45 papers while centered on the concepts and techniques of condensed matter physics also address broad issues of common concern for theorists who apply advanced many particle methods in other areas of physics Five primary topics are covered by the contributions quantum liquids boson condensates strongly correlated electron systems superconductivity and superfluidity and phase transitions Some of examples of specific questions addressed include shot noise of mesoscopic quantum systems heat transport in superlattices transitions from non colinear to colinear structures in a magnetic multilayer model order disorder transitions in a vortex lattice perturbation theory in the one phase region of an electron ion system and nonlinear dynamics in metal clusters c Book News Inc     *Hearings* United States. Congress. Joint Committee ...,1968     *After the Breakthrough* Helga Nowotny,Ulrike Felt,2002-08-22 Short book on the history and sociology of science surrounding the discovery of high temperature superconductivity     **Superconducting Materials For High Energy Colliders, Procs Of The 38th Workshop Of The Intn Elosatron Project** Luisa Cifarelli,L Maritato,2001-03-15 The ELOISATRON ELN Project aims at a future proton supercollider with 100 500 TeV energy per beam

and 1034 1036 cm<sup>-1</sup> luminosity While the Large Hadron Collider LHC is being implemented at CERN it is very timely to study the feasibility of the next generation of hadron colliders at the extreme limits of energy and luminosity In this respect the achievement of extremely high magnetic fields and the production of accelerating rf cavities with very low losses are a crucial point in the actual construction design of such a collider The search for superconducting materials with suitable properties to be used in this field has gained a new impulse after the discovery of the so called high temperature superconducting compounds HTSCs with superconducting critical temperatures higher than 100 K Besides the critical temperatures the transport performances of this class of compounds are still very far from allowing applications in extremely high energy colliders On the other hand in the last few years the technological and scientific improvements obtained for both the HTSCs and the conventional superconducting materials are very promising This book reviews the recent status of R D on the rising generation of superconducting materials for accelerator magnets and cavities and discusses novel aspects and ideas in this domain

#### **Lower-Dimensional Systems and Molecular Electronics** Robert M. Metzger, Peter R.

Day, George C. Papavassiliou, 2013-11-11 This volume represents the written account of the NATO Advanced Study Institute Lower Dimensional Systems and Molecular Electronics held at Hotel Spetses Spetses Island Greece from 12 June to 23 June 1989 The goal of the Institute was to demonstrate the breadth of chemical and physical knowledge that has been acquired in the last 20 years in inorganic and organic crystals polymers and thin films which exhibit phenomena of reduced dimensionality The interest in these systems started in the late 1960 s with lower dimensional inorganic conductors in the early 1970 s with quasi one dimensional crystalline organic conductors which by 1979 led to the first organic superconductors and in 1977 to the first conducting polymers The study of monolayer films Langmuir Blodgett films had progressed since the 1930 s but reached a great upsurge in the early 1980 s The pursuit of non linear optical phenomena became increasingly popular in the early 1980 s as the attention turned from inorganic crystals to organic films and polymers And in the last few years the term molecular electronics has gained ever increasing acceptance although it is used in several contexts We now have organic superconductors with critical temperatures in excess of 10 K conducting polymers that are soluble and processable and used commercially we have films of a few monolayers that have high in plane electrical conductivity and polymers that show great promise in photonics we even have a few devices that function almost at the molecular level

#### **International Conference on Theoretical Physics** Daniel Iagolnitzer, Vincent Rivasseau, Jean

Zinn-Justin, 2012-12-06 The International Conference on Theoretical Physics TH 2002 took place in Paris from July 22 to 27 in the Conference Center of the UNESCO the United Nations Educational Scientific and Cultural Organization under aegis of the IUPAP the International Union of Pure and Applied Physics and of the French and European Physical Societies with a large support of several French European and international Institutions International and crossdisciplinary TH 2002 welcomed around 1200 participants representing all domains of modern theoretical physics The conference offered a high

level scientific program including 18 plenary lectures 45 general lectures in thematic sessions and 140 more specialized lectures partly invited and partly selected among proposals received from participants Around 500 contributions were also presented as posters Plenary lectures as well as general thematic lectures were addressed to a general audience of theoreticians not only to specialists According to our commitments towards UNESCO and other sponsoring institutions TH 2002 attributed more than 200 fellowships mostly to scientists from developing countries and Eastern Europe covering registration fees and for more than half of them stay expenses with student type accommodation Special highlights of the conference included the opening ceremony on July 22 with the participation of Mrs Claudie Haignere French Minister of Research and M Walter Erdelen General Ad joint Director for Sciences at UNESCO Their opening addresses were especially appreciated and are reproduced below This ceremony preceded the first lecture by Professor Cohen Tannoudji Physics Nobel prize winner

*The Physics of a Lifetime* Vitaly L. Ginzburg, 2013-03-09 Every reader interested in understanding the important problems in physics and astrophysics and their historic development over the past 60 years will enjoy this book immensely The philosophy history and the individual views of famous scientists of the 20th century known personally to the author make this book fascinating for non physicists too The book consists of three parts on I major problems of physics and astrophysics II the philosophy and history of science and III memorial essays on famous physicists The author is an internationally renowned scientist who summarizes here his life long interests experience and insights into the work of other eminent 20th century physicists Professor Ginzburg's fundamental contributions to the theory of superconductivity encapsulated in the famous and widely used Ginzburg Landau equations have been recognized with the 2003 Nobel Prize in Physics shared with A A Abrikosov and A E Leggett

**India Rising** R. Chidambaram, Suresh Gangotra, 2023-07-24 The book looks at the life of one of India's foremost scientists Dr R Chidambaram who served as principal scientific advisor PSA to the Government of India and as chairman of the Scientific Advisory Committee to the Cabinet SACC from November 2001 to March 2018 As one of India's most distinguished experimental physicists Dr Chidambaram has made outstanding contributions to many aspects of basic science and nuclear technology A Padma Vibhushan awardee he played a leading and integral role in the design and execution of the peaceful Nuclear Explosion experiment at Pokhran in 1974 and led the team of the Department of Atomic Energy DAE which designed the nuclear devices and carried out in cooperation with the Defence Research and Development Organisation DRDO the Pokhran tests in May 1998 During his stewardship of the DAE the nuclear power programme got a big boost and the capacity of the nuclear power plants increased sharply Ruminating about his interactions with the scientific community and the political leadership Dr Chidambaram describes key events in India's journey to selfreliance in nuclear energy India Rising is not only a memoir of one of India's eminent scientists but also a fascinating account of India's ascendance in the world of science and technology

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