



# Recent Advances In Superconductivity

**Hisao Hayakawa, Youichi Enomoto**



## **Recent Advances In Superconductivity:**

*Recent Advances in Superconductivity* S. L. Kakani, C. Hemrajani, 1990      *Recent Advances in Superconductivity Research* Christopher B. Taylor, 2013

The authors of this book present current research in the study of superconductivity. Topics discussed in this compilation include the effects of non magnetic defects in hole doped cuprates deep cryogenic refrigeration by photons based on the phonon deficit effect in superconductors superconductivity driven by an anti polar electric phase in high temperature superconducting materials superconductive graphite intercalation compounds a superconducting magnetic field concentrator with nanodimensional branches and slits magnetic mechanisms of pairing in a strongly correlated electron system of copper oxides two non linear mechanisms of correlations between copper carriers in superconductivity and their microscopical descriptions three dimensionality of the critical state and variational methods for magnetically anisotropic superconductors theory of multi band superconductivity conserving approximation for the self energy of the  $t$   $U$   $V$   $J$  model beyond the Hartree Fock approximation and superconductivity as a consequence of an ordering of zero point oscillations in electron gas

*Advances in Superconductivity XI* N. Koshizuka, S. Tajima, 2013-11-11

The 11th International Symposium on Superconductivity was held November 16 19 1998 in Fukuoka Japan Convened annually since 1988 the symposium covers the whole field of superconductivity from fundamental physics and chemistry to new applications At the 11th Symposium there was increased interest reported in the development of trial devices using bismuth wires and yttrium based bulk materials Among the presentations were those that clearly defined the development targets for next generation yttrium based wires and bulk materials and single flux quantum SFQ circuits Other popular topics were high temperature superconductivity applications such as SQUIDS microwave filters and cryocooler cooled magnets With more than 600 participants from 18 countries the symposium provided an excellent forum for exchanges of the most recent information in the field of superconductivity

**Advances in Superconductivity VIII** Hisao Hayakawa, Youichi Enomoto, 2013-11-11

Since the discovery of superconductivity with transition temperatures above 77 K concentrated research activities toward the exploration of practical applications of these materials have been carried out Currently a remarkable improvement in superconducting properties has been achieved due to the fine optimization of fabrication processes and this has attracted industrial interest for future applications In the case of  $\text{NdBaCuO}$  materials a new pinning mechanism was found which enhances the critical current under applied magnetic fields In single crystals of these materials oxygen control results in an increase in the growth rate The metalorganic chemical vapor deposition MOCVD film quality has been improved by using a new liquid raw material Simultaneously real demands from the viewpoint of the market start to be a motivation force especially in electronics application where some products are already being sold At the same time interesting physical properties have been obtained from a new superconducting single crystal which has a layered perovskite structure without copper In addition various precision measurement techniques have confirmed the d wave

mechanism and the existence of intrinsic Josephson junctions in single crystals These new phenomena challenge the existing theoretical models but also open the way for new applications These significant areas of progress in materials science have led high T<sub>c</sub> super conductivity research into the next phase of activity while fundamental research continues to be very important I sincerely hope that this volume will give further impetus to this development **Advances in**

**Superconductivity XII** T. Yamashita,K. Tanabe,2013-11-11 The 12th International Symposium on Superconductivity was held in Morioka Japan October 17 19 1999 Convened annually since 1988 the symposium covers the whole field of superconductivity from fundamental physics and chemistry to a variety of applications At the 12th Symposium a mini symposium focusing on the two dimensionality of high temperature superconductors or the c axis transport and a session on vortex physics were organized There were also many reports on the recent developments of YBCO based coated conductors both in the United States and in Japan AC losses of wires and tapes developments of bulk materials with strong flux pinning the recent progress in thin film and junction technologies and the demonstration of various electronics applications using SQUIDs microwave devices and single flux quantum SFQ digital devices This volume is a valuable resource for all those working in the field of superconductivity Advances in Superconductivity VI Toshizo Fujita,Yuh Shiohara,2012-12-06 More than seven years have passed since the dramatic breakthrough in the critical temperature for superconductors During this period a host of new materials have been discovered and efforts have been stepped up in a variety of domains including device and systems applications commercialization and basic research on the properties of superconductive materials Recent progress in areas such as bulk single crystal production long scale wire and tape production flywheel and bearing applications and electronic device applications for thin films indicate that science and technology have been working hand in hand in this field as has been the case in the research and development of semi conductors This interdisciplinary resonance will be certain to lead to further outstanding advances in the years to come It goes without saying that worldwide information exchange is the key to accelerating progress in superconductivity science and technology As in previous years the ISS 93 served as a venue where visions of future developments were shared in addition to presentations and extensive discussions on the most up to date research results I hope that the Proceedings contained in this volume will be consulted not only as a summary of the current state of the art in high T<sub>c</sub> superconductivity but also as a stimulating source of ideas regarding future applications of superconductivity research **Recent Advances in Superconductivity** ,2006 **Recent Advances**

**in Functional Materials, Volume 2** Manish Kumar,Anjani Kumar Singh,Subhash Sharma,Devendra Kumar,2025-09-01 This volume presents the select proceedings of International Conference on Recent Advances in Functional Materials RAFM 2024 It covers a wide range of topics such as multifunctional materials 2D materials biomaterials materials for environmental studies DFT and solar simulation of materials perovskite and double perovskite materials luminescent materials smart materials materials for energy conversion and storage smart materials advanced functional materials polymeric materials

composites liquid crystals materials for sustainable development nanomaterials and thin films smart devices and quantum dots synthesis technique and characterization tools with application in smart devices The book will be useful for researchers and professionals working in various areas of materials science

#### **Recent Advances And Cross-century Outlooks In**

**Physics: Interplay Between Theory And Experiment** Cheuk-yin Wong, Pisin Chen, 2000-04-05

#### **Advances in**

**Superconductivity IV** Hisao Hayakawa, Naoki Koshizuka, 2012-12-06 Five years have passed since the breakthrough in the critical temperature for superconductors During this period many superconducting materials have been discovered and developed and our knowledge of the physical and other properties of oxide superconductors has deepened through extensive and intensive research This knowledge has advanced superconductivity science and technology from the initial questioning stage to a more developed but still uncertain second stage where research activity in superconductivity now overlaps with fields of application Generally speaking science resonates with technology Science not only complements but also competes with or stimulates technology New scientific knowledge has triggered the second technological research stage Much progress has been made in the development of practical devices encouraging the application of superconductors in areas such as human levitation a high speed levitated bearing large current transforming leads and high frequency devices This technological progress has increased our understanding of the science involved such as flux pinning and dynamics and anomalous long range superconducting interactions At this important stage international cooperation and collaborative projects can effectively sustain aggressive research and development in order to advance superconductivity to the next stages The ISS Symposium is expected to serve as a venue for increasing our knowledge of superconductivity and for exchanging visions for future research and applications through the presentation and discussion of the latest research results These proceedings also aim to summarize annual progress in high  $T_c$  superconductivity in all fields

#### **Advances in**

**Superconductivity III** Koji Kajimura, Hisao Hayakawa, 2012-12-06 Since the discovery of high temperature superconductors many new materials have been invented In the last year several new materials were also discovered but their critical temperatures are still below 100 K Precise physical and chemical work has made tremendous progress in the theoretical and experimental study of physical properties and carrier state characterizations The de Haas van Alphen effect measurement showed the existence of a Fermi surface in YBCO Flux dynamics is a well known new problem in which flux creep and irreversibility line features are especially important for a fundamental understanding of the critical current and flux pinning Flux pinning centers which are intentionally added using non superconducting precipitates neutrons and protons etc increase critical currents to practical levels The analysis of electric and magnetic properties are expected to reveal the pinning mechanism and also to further application development As for wires and bulks many melt like sintering techniques have improved the material performance of critical current densities A new seeding Quench Melt Growth technique enlarged crystal size and increased the repulsion force These melting processes in conjunction with a mechanical strength

improvement have been effectively introduced into wire fabrication in order to realize kilometer range wires and will put the oxide wires to practical use. Where thin film is concerned when many fabrication methods had been developed using the assistance effect of activated oxygen such as ozone and oxygen radicals a high current density of  $10^6 \text{ A cm}^{-2}$  at 77 K was reported.

**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  $T_c = 7.2 \text{ K}$ . They were called as Type I superconductors. Niobium nitride was found to superconduct at 16 K at 1941 and Vanadium silicide showed superconductive properties at 17.5 K at 1953. Nb alloys and binary or more complex compounds such as Nb<sub>3</sub>Sn ( $T_c = 18 \text{ K}$ ), Nb<sub>3</sub>Ti ( $T_c = 9 \text{ K}$ ), Ga<sub>3</sub>V ( $T_c = 23 \text{ K}$ ) 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  $T_c = 39 \text{ K}$ . 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  $T_c$  of 93 K. Prior to 1987 all superconducting materials had lower critical temperatures  $T_c$ '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  $T_c$ '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 of NMR spectrometers by a factor of 3 compared to that achievable with conventional coils. Paul Chu's group holds the current  $T_c$  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  $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_2\text{O}_{10}$  BiSCCO high temperature superconductive compound having  $T_c$  110 K was reported In 1993 mercuric cuprates perovskite ceramic superconductors with the transition temperatures  $T_c$  138 K was also reported *New Developments In Applied Superconductivity - Proceedings Of The International Symposium* Yukitaka Murakami, 1989-06-01 This symposium focused on new superconductors electronics magnet technology energy and new applications Recent discoveries in HTc with transition temperatures over 90 K have spawned a search for practical new applications These applications extend from current uses such as that of the medical MRI to future applications represented by research on new high temperature materials They span from microcircuit applications to the proposed SMES and fusion reactor applications

**Phonons - Recent Advances, New Perspectives and Applications** Jie Deng, 2024-11-06 This book presents the latest advancements in the study of phonons and acoustic metamaterials Chapters address such topics as modeling theories aimed at characterizing coupled modes and dispersion curves acoustic radiation nonlinear phenomena thermodynamics antiferromagnets acoustic black holes and track structures The book compiles significant contributions from esteemed international researchers offering an excellent survey of new perspectives on phonons **Recent Advances In Fast Ion**

**Conducting Materials And Devices - Proceedings Of The 2nd Asian Conference On Solid State Ionics** B V R Chowdari, Liquan Chen, Qingguo Liu, 1990-10-23 Contents Recent Trends in Solid State Ionics T Takahashi Theoretical Aspects of Fast Ion Conduction in Solids D Brinkman Chemical Bonding and Interaction Processes in Framework Structures P Hagenmuller Characterization of New Ambient Temperature Lithium Polymer Electrolyte G C Farrington Relaxation of Conductivity to Structure and Structural Relaxation in Ion Conducting Glasses C A Angell H Senapati Electrochemical Studies on High  $T_c$  Superconductors L Q Chen X J Huang Light Scattering Studies on Superionic Conductor YSZ M Ishigame et al and others Readership Solid state physicists materials scientists and condensed matter physicists Recent Advances

in Multifunctional Perovskite Materials Poorva Sharma, Ashwini Kumar, 2022-12-14 This book summarizes current advances in the field of multifunctional perovskite materials including information on their synthesis characterization and properties as well as their use in the fabrication of devices and applications Chapters address such topics as the physiochemical properties of various perovskite materials advances in perovskites for solar cells and multifunctional materials and their numerous applications **Advances in Superconductivity VI** Toshizō Fujita, Yuh Shiohara, 1994 **Proceedings of the**

**Symposium on Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials** Karl M. Kadish, Rodney S. Ruoff, 1996 Impact of Recent Advances in Processing of Ceramic Superconductors Winnie Wong-Ng, U. Balachandran, A. S. Bhalla, 1998 Contains papers from a May 1997 symposium divided into sections on processing and single crystal growth crystal structure and synthesis phase equilibria and crystal growth films and applications and wires and composites Papers address current processing techniques and methods for high temperat **New Research on YBCO**

**Superconductors** David M. Friedman, 2008 Superconductivity is the ability of certain materials to conduct electrical current with no resistance and extremely low losses High temperature superconductors such as  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_x$   $T_c$  40K and  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$   $T_c$  90K were discovered in 1987 and have been actively studied since In spite of an intense world wide research a complete understanding of the copper oxide cuprate materials is still lacking Many fundamental questions are unanswered particularly the mechanism by which high  $T_c$  superconductivity occurs More broadly the cuprates are in a class of solids with strong electron electron interactions An understanding of such strongly correlated solids is perhaps the major unsolved problem of condensed matter physics with over ten thousand researchers working on this topic High  $T_c$  superconductors also have significant potential for applications in technologies ranging from electric power generation and transmission to digital electronics This ability to carry large amounts of current can be applied to electric power devices such as motors and generators and to electricity transmission in power lines For example superconductors can carry as much as 100 times the amount of electricity of ordinary copper or aluminium wires of the same size This Publication presents new research on yttrium barium copper oxide superconductors often abbreviated YBCO which is a chemical compound with the formula  $\text{YBa}_2\text{Cu}_3\text{O}_7$  This material a famous high temperature superconductor achieved prominence because it was the first material to superconduct above the boiling point of nitrogen All materials developed before YBCO became superconducting only at temperatures near the boiling points of liquid helium or liquid hydrogen  $T_b$  20.1 K The significance of the discovery of YBCO is the breakthrough in the refrigerant used to cool the material to below the critical temperature



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