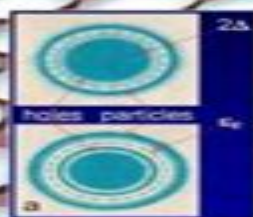
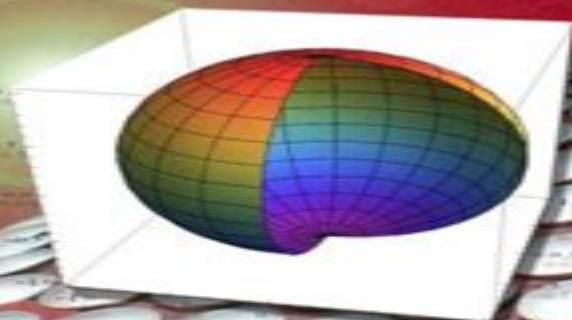


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Recent Advances In Superconductivity

Hisao Hayakawa, Naoki Koshizuka



Recent Advances In Superconductivity:

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 *Recent Advances in Superconductivity* S. L. Kakani, C. Hemrajani, 1990 *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 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 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 Tc superconductivity but also as a stimulating source of ideas regarding future applications of superconductivity research

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 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 Tc superconductivity 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

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 in Superconductivity** ,2006 **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 discuss of the latest research results These proceedings also aim to summarize annual progress in high T_c superconductivity in all fields **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

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