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Abstract This wide-ranging presentation of applied superconductivity, from fundamentals and materials right up to the details of many applications, is an essential reference for physicists and...

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We were asked to announce an upcoming new handbook, which should hit the bookstore shelves in early 2015. It is the “ Applied Superconductivity: Handbook on Devices and Applications ” edited by Paul Seidel of the university of Jena, an ambitious attempt to cover the whole broad field. Indeed, the very long list of co-authors on Contents pages may remind one of “ Who ’ s Who in Applied Superconductivity ” , which at least promises competent, up-to-date coverage of that whole field.



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Technology, preparation and characterization are covered for bulk, single crystals, thin films as well as electronic devices, wires and tapes. The main benefit of this work lies in its broad coverage of significant applications in magnets, power engineering, electronics, sensors and quantum metrology. The reader will find information on superconducting magnets for diverse applications like particle physics, fusion research, medicine, and biomagnetism as well as materials processing.

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and superconducting materials will expand their knowledge and understanding of both low and high  $T_c$  superconductors with respect to their application. Technology, preparation and characterization are covered for bulk, single crystals, thin films as well as electronic devices, wires and tapes. The main benefit of this work lies in its broad coverage of significant applications in magnets, power engineering, electronics, sensors and quantum metrology. The reader will find information on superconducting magnets for diverse applications like particle physics, fusion research, medicine, and biomagnetism as well as materials processing. SQUIDs and their usage in medicine or geophysics are thoroughly covered, as are superconducting radiation and particle detectors, aspects on superconductor digital electronics, leading readers to quantum computing and new devices.

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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

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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.

This handbook is about a remarkable set of materials that are technically referred to as "mesoscopic superconductors", which for all practical purposes are tiny or small in their dimensions, ranging from a few micrometers down to a nanometer. At this level of smallness, the

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superconducting properties are dramatically changed, showing the dominance of quantum effects. Ground breaking research studies of small superconductors have emerged, and in a world obsessed with miniaturization of electronic device technology, small superconductors acquire even greater relevance and timeliness for the development of exciting novel quantum devices. The chapters, contributed by noted researchers and frontrunners in the field from 15 countries, are presented in three parts, namely progress in basic studies, materials specific research, and advances in nanodevices. The contents of the handbook should be of immediate interest to advanced level university students and researchers particularly in physics, materials science, nanoscience and engineering departments. Various reviews and overviews appearing in the book should answer the queries and curiosities of non-specialists interested in nanoscale superconductivity.



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At the start, the book carries an extended introduction for readers new to the field. The book should also appeal to scientists and engineers from electronic industries interested in knowing the current status of the theory, manufacture, and future of mesoscopic superconductors. In doing so, this volume offers the opportunity to engage with cutting edge research in one of the most exciting fields of physics today and tomorrow.

This wide-ranging presentation of applied superconductivity, from fundamentals and materials right up to the details of many applications, is an essential reference for physicists and engineers in academic research as well as in industry. Readers looking for a comprehensive overview on basic effects related to superconductivity and superconducting materials will expand their knowledge and

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understanding of both low and high  $T_c$  superconductors with respect to their application. Technology, preparation and characterization are covered for bulk, single crystals, thin films as well as electronic devices, wires and tapes. The main benefit of this work lies in its broad coverage of significant applications in magnets, power engineering, electronics, sensors and quantum metrology. The reader will find information on superconducting magnets for diverse applications like particle physics, fusion research, medicine, and biomagnetism as well as materials processing. SQUIDs and their usage in medicine or geophysics are thoroughly covered, as are superconducting radiation and particle detectors, aspects on superconductor digital electronics, leading readers to quantum computing and new devices.

Applied Superconductivity, Volume II, is part of a two-volume series

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on applied superconductivity. The first volume dealt with electronic applications and radiation detection, and contains a chapter on liquid helium refrigeration. The present volume discusses magnets, electromechanical applications, accelerators, and microwave and rf devices. The book opens with a chapter on high-field superconducting magnets, covering applications and magnet design. Subsequent chapters discuss superconductive machinery such as superconductive bearings and motors; rf superconducting devices; and future prospects in applied superconductivity. Each chapter in the two volumes can be read independently, and most assume very little or no background in the physics of superconductivity. The topics treated do not require the use of advanced quantum mechanics; thus the books should be accessible to students or research workers in any branch of engineering or physics. They are intended to serve both as a source of reference

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material to existing techniques and as a guide to future research.

This book presents detailed discussions of several of the large scale applications of superconductivity which will have major economic impact on technical developments in the industrial world. The world wide concern with energy problems makes this work particularly timely. Some of the large scale devices and systems such as superconducting generators, motors, power transmission, large magnets, high speed ground transportation and industrial processing clearly speak directly to improved efficiencies of generation and utilization of energy. The articles treat each subject in depth. The text is suitable for advanced undergraduate or graduate engineering or

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applied science courses. The text should also be of immediate use to practicing engineers and scientists in applied superconductivity. The unique summaries of national efforts in applied superconductivity will also be valuable to industrial and government planners. The book is based on a NATO Advanced Study Institute entitled, "Large Scale Applications of Superconductivity and Magnetism" which was held September 5 to 14 in the Hotel des Alpes, Entreves, Valle d'Aosta, Northern Italy. This Study Institute represented a departure from other NATO Advanced Study Institutes in that it was very strongly directed toward engineering applications rather than purely scientifically oriented interests. The planning of this Institute developed over several years and would not have been possible without continued interest by several key NATO Scientific Affairs Division scientists. It started when one of us (S. F. ) met with Dr. H.

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This book is on applied superconductivity, which is one of the topical issues of modern science and technology. At present, the prospects for the practical application of superconductivity are obvious from both economic and practical points of view. It can reduce heat losses and reduce the weight and size of equipment, improve the reliability of electrical devices and power systems, and create new devices. As a result, the achievements of applied superconductivity make it possible to perform effective retrofitting of equipment for scientific research, in medicine, electric power, electrical engineering, transport, and to introduce new advanced technologies that provide higher efficiency, significantly reducing working costs.

This book presents novel concepts in the development of high-

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temperature superconducting (HTS) devices and discusses the technologies involved in producing efficient and economically feasible energy technologies around the world. High-Temperature Superconducting Devices for Energy Application covers the application of high-temperature superconductors in clean energy production and allied cooling technologies. In addition, it presents the compatibility of other materials involved in the construction of various devices at cryogenic temperatures. It also summarizes superconducting fault current limiters (SFCL) and related grid stabilization. The book addresses the need to lower the losses incurred with efficient power transmission. The aim of this book is to serve the needs of industry professionals, researchers, and doctoral students studying energy technologies. Features Discusses the history of the development of high-temperature superconductors Covers cryogenic cooling technologies

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adapted for various superconducting devices Presents a detailed design of superconducting generators Highlights the importance of superconducting magnetic energy storage (SMES) devices in the power grid Focuses on theoretical computations

Superconducting technology is potentially important as one of the future smart grid technologies. It is a combination of superconductor materials, electrical engineering, cryogenic insulation, cryogenics and cryostats. There has been no specific book fully describing this branch of science and technology in electrical engineering. However, this book includes these areas, and is essential for those majoring in applied superconductivity in electrical engineering. Recently, superconducting technology has made great progress. Many universities and companies are involved in applied superconductivity with the support of



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government. Over the next five years, departments of electrical engineering in universities and companies will become more involved in this area. This book:

- will enable people to directly carry out research on applied superconductivity in electrical engineering
- is more comprehensive and practical when compared to other advances
- presents a clear introduction to the application of superconductor in electrical engineering and related fundamental technologies
- arms readers with the technological aspects of superconductivity required to produce a machine
- covers power supplying technologies in superconducting electric apparatus
- is well organized and adaptable for students, lecturers, researchers and engineers
- lecture slides suitable for lecturers available on the Wiley Companion Website

Fundamental Elements of Applied Superconductivity in Electrical Engineering is ideal for academic researchers, graduates and

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undergraduate students in electrical engineering. It is also an excellent reference work for superconducting device researchers and engineers.

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