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The Current Status and Future Direction of High-Magnetic-Field Science and Technology in the United States

Consensus Study Report

High Magnetic Fields Science And Technology

Fritz Herlach, Noboru Miura



High Magnetic Fields Science And Technology:

The Current Status and Future Direction of High-Magnetic-Field Science and Technology in the United States National Academies of Sciences Engineering and Medicine, Division on Earth and Life Studies, Division on Engineering and Physical Sciences, Nuclear and Radiation Studies Board, Board on Physics and Astronomy, National Materials and Manufacturing Board, Committee on the Current Status and Future Direction of High-Magnetic-Field Science in the United States Phase II, 2025-05-13 High magnetic fields are a vital tool in many areas of science and technology that impact our everyday lives. Magnetic resonance imaging enables a wide range of medical diagnostics and research while nuclear magnetic resonance is critical for drug discovery research and more. High magnetic fields are an essential component to many proposed fusion energy reactors and are necessary to push the boundaries towards the development of new quantum technologies and semiconductors. At the request of the National Science Foundation the National Academies organized a study to identify scientific opportunities and key applications for high magnetic field science and technology for the next decade and beyond. This report explores the current state and future prospects for high magnetic field technologies and recommends actions to support the workforce, facilities, magnet development and critical materials access necessary to promote U.S. innovation.

High Magnetic Field Science and Its Application in the United States: National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee to Assess the Current Status and Future Direction of High Magnetic Field Science in the United States, 2013-11-25 The Committee to Assess the Current Status and Future Direction of High Magnetic Field Science in the United States was convened by the National Research Council in response to a request by the National Science Foundation. This report answers three questions: 1. What is the current state of high field magnet science, engineering and technology in the United States and are there any conspicuous needs to be addressed? 2. What are the current science drivers and which scientific opportunities and challenges can be anticipated over the next ten years? 3. What are the principal existing and planned high magnetic field facilities outside of the United States, what roles have U.S. high field magnet development efforts played in developing those facilities and what potentials exist for further international collaboration in this area? A magnetic field is produced by an electrical current in a metal coil. This current exerts an expansive force on the coil and a magnetic field is high if it challenges the strength and current carrying capacity of the materials that create the field. Although lower magnetic fields can be achieved using commercially available magnets, research in the highest achievable fields has been and will continue to be most often performed in large research centers that possess the materials and systems know-how for forefront research. Only a few high field centers exist around the world. In the United States the principal center is the National High Magnetic Field Laboratory (NHMFL). High Magnetic Field Science and Its Application in the United States considers continued support for a centralized high field facility such as NHMFL to be the highest priority. This report contains a recommendation for the funding and siting of several new high field

nuclear magnetic resonance magnets at user facilities in different regions of the United States Continued advancement in high magnetic field science requires substantial investments in magnets with enhanced capabilities High Magnetic Field Science and Its Application in the United States contains recommendations for the further development of all superconducting hybrid and higher field pulsed magnets that meet ambitious but achievable goals

High Magnetic Fields: Science And Technology (In 3 Volumes) - Vol. 1 Fritz Herlach,Noboru Miura,2003-10-06 This three volume book provides a comprehensive review of experiments in very strong magnetic fields that can only be generated with very special magnets The first volume is entirely devoted to the technology of laboratory magnets permanent superconducting high power water cooled and hybrid pulsed magnets both nondestructive and destructive megagauss fields Volumes 2 and 3 contain reviews of the different areas of research where strong magnetic fields are an essential research tool These volumes deal primarily with solid state physics other research areas covered are biological systems chemistry atomic and molecular physics nuclear resonance plasma physics and astrophysics including QED

High Magnetic Fields: Science And Technology (In 3 Volumes) - Vol. 3 Fritz Herlach,Noboru Miura,2006-03-01 This three volume book provides a comprehensive review of experiments in very strong magnetic fields that can only be generated with very special magnets The first volume is entirely devoted to the technology of laboratory magnets permanent superconducting high power water cooled and hybrid pulsed magnets both nondestructive and destructive megagauss fields Volumes 2 and 3 contain reviews of the different areas of research where strong magnetic fields are an essential research tool These volumes deal primarily with solid state physics other research areas covered are biological systems chemistry atomic and molecular physics nuclear resonance plasma physics and astrophysics including QED

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High Magnetic Fields Fritz Herlach,2003-10-06 This three volume book provides a comprehensive review of experiments in very strong magnetic fields that can only be generated with very special magnets The first volume is entirely devoted to the technology of laboratory magnets permanent superconducting high power water cooled and hybrid pulsed magnets both nondestructive and destructive megagauss fields Volumes 2 and 3 contain reviews of the different areas of research where strong magnetic fields are an essential research tool These volumes deal primarily with solid state physics other research areas covered are biological systems chemistry atomic and molecular physics nuclear resonance plasma

physics and astrophysics including QED *High Magnetic Fields* ,2004 High Magnetic Field Science and Its Application in the United States National Research Council,Division on Engineering and Physical Sciences,Board on Physics and Astronomy,Committee to Assess the Current Status and Future Direction of High Magnetic Field Science in the United States,2013-11-25 The Committee to Assess the Current Status and Future Direction of High Magnetic Field Science in the United States was convened by the National Research Council in response to a request by the National Science Foundation This report answers three questions 1 What is the current state of high field magnet science engineering and technology in the United States and are there any conspicuous needs to be addressed 2 What are the current science drivers and which scientific opportunities and challenges can be anticipated over the next ten years 3 What are the principal existing and planned high magnetic field facilities outside of the United States what roles have U S high field magnet development efforts played in developing those facilities and what potentials exist for further international collaboration in this area A magnetic field is produced by an electrical current in a metal coil This current exerts an expansive force on the coil and a magnetic field is high if it challenges the strength and current carrying capacity of the materials that create the field Although lower magnetic fields can be achieved using commercially available magnets research in the highest achievable fields has been and will continue to be most often performed in large research centers that possess the materials and systems know how for forefront research Only a few high field centers exist around the world in the United States the principal center is the National High Magnetic Field Laboratory NHMFL High Magnetic Field Science and Its Application in the United States considers continued support for a centralized high field facility such as NHFML to be the highest priority This report contains a recommendation for the funding and siting of several new high field nuclear magnetic resonance magnets at user facilities in different regions of the United States Continued advancement in high magnetic field science requires substantial investments in magnets with enhanced capabilities High Magnetic Field Science and Its Application in the United States contains recommendations for the further development of all superconducting hybrid and higher field pulsed magnets that meet ambitious but achievable goals **Opportunities in High Magnetic Field Science** National Research Council,Division on Engineering and Physical Sciences,Board on Physics and Astronomy,Solid State Sciences Committee,Committee on Opportunities in High Magnetic Field Science,2005-07-26 High field magnets those that operate at the limits of the mechanical and or electromagnetic properties of their structural materials are used as research tools in a variety of scientific disciplines The study of high magnetic fields themselves is also important in many areas such as astrophysics Because of their importance in scientific research and the possibility of new breakthroughs the National Science Foundation asked the National Research Council to assess the current state of and future prospects for high field science and technology in the United States This report presents the results of that assessment It focuses on scientific and technological challenges and opportunities and not on specific program activities The report provides findings and recommendations about

important research directions the relative strength of U S efforts compared to other countries and ways in which the program can operate more effectively

High Magnetic Fields: Science And Technology (In 3 Volumes) - Vol. 2 Fritz Herlach,Noboru Miura,2003-10-06 This three volume book provides a comprehensive review of experiments in very strong magnetic fields that can only be generated with very special magnets The first volume is entirely devoted to the technology of laboratory magnets permanent superconducting high power water cooled and hybrid pulsed magnets both nondestructive and destructive megagauss fields Volumes 2 and 3 contain reviews of the different areas of research where strong magnetic fields are an essential research tool These volumes deal primarily with solid state physics other research areas covered are biological systems chemistry atomic and molecular physics nuclear resonance plasma physics and astrophysics including QED

High Magnetic Fields ,2003 **Physical Phenomena At High Magnetic Fields Ii** John Robert Schrieffer,Zachary Fisk,Lev P Gor'kov,David Meltzer,1996-05-25 The purpose of the conference was to bring together experts in research areas of science in which high magnetic fields play an important role to critically assess the current status of research in these areas and to discuss promising new directions in science as well as applications which are at the forefront of these fields The program consisted of talks given by leading experts presenting overviews and critical assessments of certain areas including semiconductors the quantum Hall effect heavy fermions superconductivity organic solids chemical systems and the generation and use of high magnetic fields in basic and applied research

Strong and Superstrong Pulsed Magnetic Fields Generation German A. Shneerson,Mikhail I. Dolotenko,Sergey I. Krivosheev,2014-10-29 Strong pulsed magnetic fields are important for several fields in physics and engineering such as power generation and accelerator facilities Basic aspects of the generation of strong and superstrong pulsed magnetic fields technique are given including the physics and hydrodynamics of the conductors interacting with the field as well as an account of the significant progress in generation of strong magnetic fields using the magnetic accumulation technique Results of computer simulations as well as a survey of available field technology are completing the volume

Practical Design of Magnetostatic Structure Using Numerical Simulation Qiuliang Wang,2013-04-02 Magnets are widely used in industry medical scientific instruments and electrical equipment They are the basic tools for scientific research and electromagnetic devices Numerical methods for the magnetic field analysis combined with mathematical optimization from practical applications of the magnets have been widely studied in recent years It is necessary for professional researchers engineers and students to study these numerical methods for the complex magnet structure design instead of using traditional trial and error methods Those working in this field will find this book useful as a reference to help reduce costs and obtain good magnetic field quality Presents a clear introduction to magnet technology followed by basic theories numerical analysis and practical applications Emphasizes the latest developments in magnet design including MRI systems Provides comprehensive numerical techniques that provide solutions to practical problems Introduces the latest computation techniques for optimizing and characterizing the

magnetostatic structure design Well organized and adaptable by researchers engineers lecturers and students Appendix available on the Wiley Companion Website As a comprehensive treatment of the topic Practical Design of Magnetostatic Structure Using Numerical Simulation is ideal for researchers in the field of magnets and their applications materials scientists structural engineers and graduate students in electrical engineering The book will also better equip mechanical engineers and aerospace engineers

Superfluidity Fouad Sabry, 2022-01-17 What Is Superfluidity Superfluidity is the characteristic property of a fluid with zero viscosity which therefore flows without any loss of kinetic energy When stirred a superfluid forms vortices that continue to rotate indefinitely Superfluidity occurs in two isotopes of helium when they are liquefied by cooling to cryogenic temperatures It is also a property of various other exotic states of matter theorized to exist in astrophysics high energy physics and theories of quantum gravity The theory of superfluidity was developed by Soviet theoretical physicists Lev Landau and Isaak Khalatnikov How You Will Benefit I Insights and validations about the following topics Chapter 1 Superfluidity Chapter 2 Superfluid vacuum theory Chapter 3 Boojum superfluidity Chapter 4 Condensed matter physics Chapter 5 Macroscopic quantum phenomena Chapter 6 Quantum hydrodynamics Chapter 7 Materials science II Answering the public top questions about superfluidity III Real world examples for the usage of superfluidity in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of superfluidity technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of superfluidity

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Transport Phenomena in Micro- and Nanoscale Functional Materials and Devices Joao B. Sousa, Joao O. Ventura, Andre Pereira, 2021-03-23 Transport Phenomena in Micro and Nanoscale Functional Materials and Devices offers a pragmatic view on transport phenomena for micro and nanoscale materials and devices both as a research tool and as a means to implant new functions in materials Chapters emphasize transport properties TP as a research tool at the micro nano level and give an experimental view on underlying techniques The relevance of TP is highlighted through the interplay between a micro nanocarrier's characteristics and media characteristics

long short range order and disorder excitations couplings and in energy conversions Later sections contain case studies on the role of transport properties in functional nanomaterials This includes transport in thin films and nanostructures from nanogranular films to graphene and 2D semiconductors and spintronics and from read heads MRAMs and sensors to nano oscillators and energy conversion from figures of merit micro coolers and micro heaters to spin caloritronics Presents a pragmatic description of electrical transport phenomena in micro and nanoscale materials and devices from an experimental viewpoint Provides an in depth overview of the experimental techniques available to measure transport phenomena in micro and nanoscale materials Features case studies to illustrate how each technique works Highlights emerging areas of interest in micro and nanomaterial transport phenomena including spintronics

Physical Phenomena At High Magnetic Fields

- **IV** Gregory S Boebinger, Zachary Fisk, Alex H Lacerda, John Robert Schrieffer, Lev P Gor'kov, 2002-07-01 Physical Phenomena at High Magnetic Fields IV PPHMF IV was the fourth in the series of conferences sponsored by the National High Magnetic Field Laboratory NHMFL The success of PPHMF I II and III held in 1991 1995 and 1998 respectively encouraged the organizers to once again bring together experts in scientific research areas where high magnetic fields play an important role to critically assess the current status of research in these areas and to discuss promising new directions in science as well as applications which are in the forefront of these fields

HSLA Steels 2015, Microalloying 2015 & Offshore Engineering Steels 2015 The Chinese Society for Metals, 2017-03-22 This is a collection of papers presented at the joint conference of the 7th International Conference on High Strength Low Alloy Steels HSLA Steels 2015 the International Conference on Microalloying 2015 Microalloying 2015 and the International Conference on Offshore Engineering Steels 2015 OES 2015 The papers focus on the exchange of the latest scientific and technological progresses on HSLA steels microalloying steels and offshore engineering steels over the past decades The contributions are intended to strengthen cooperation between universities and research institutes and iron and steel companies and users and promote the further development in the fields all over the world

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