

# HIGH-FIELD SCIENCE

Edited by  
Toshiki Tajima  
Kunioki Mima  
Hector Baldis

# High Field Science

**United States. Congress. Senate.  
Committee on Appropriations**



## **High Field Science:**

**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, 2005-08-26 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 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, 2013-12-25 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-Field Science Toshiki Tajima, Kunioki Mima, Hector Baldis, 2001-03-31 High Field Science is a proceedings volume from a meeting at Lawrence Livermore Laboratory and contains papers from the top experts in the fields of ultraintense laser technology laser fusion energy high energy laser electron acceleration bright X ray sources by lasers laboratory laser astrophysics and applications to relativity high density and high energy physics *Megagauss Magnetic Field Generation, Its Application to Science and Ultra-high Pulsed-power Technology* Hans J. Schneider-Muntau, 2004 The generation of megagauss fields for science and technology is an exciting area at the extremes of parameter space involving the application and controlled handling of extremely high power and energy densities in small volumes and on short time scales New physical phenomena technological challenges and the selection and development of materials together create a unique potential and synergy resulting in fascinating discoveries and achievements This book is a collection of the contributions of an international conference which assembled the leading scientists and engineers worldwide working on the generation and use of the strongest magnetic fields possible Other research activities include generators that employ explosives to create ultra high pulsed power for different applications such as megavolt or radiation sources Additional topics are the generation of plasmas and magnetized plasmas for fusion imploding liners rail guns etc **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 **Progress in Ultrafast Intense Laser Science XVI** Kaoru Yamanouchi, Katsumi Midorikawa, Luis Roso, 2021-07-30 This book covers a broad range of topics from the interdisciplinary research field of ultrafast intense laser science focusing on atoms and molecules interacting with intense laser fields laser induced filamentation high order harmonics generation and high power lasers and their applications This sixteenth volume features contributions from world renowned researchers introducing the latest reports on probing molecular chirality with intense laser fields and the most recent developments in the Shanghai Superintense Ultrafast Laser Facility project The PUILS series delivers up to date reviews of progress in this emerging interdisciplinary research field spanning atomic and molecular physics molecular science and optical science which has been stimulated by the recent developments in ultrafast laser technologies Each volume compiles peer reviewed articles authored by researchers at the forefront of each of their own

subfields of ultrafast intense laser science Every chapter opens with an overview of the topics to be discussed so that researchers unfamiliar to the subfield especially graduate students can grasp the importance and attractions of the research topic at hand these are followed by reports of cutting edge discoveries

**Progress in Ultrafast Intense Laser Science I**  
 See Leang Chin,Pierre Agostini,Gaetano Ferrante,2006-10-03 This is the first of a series of books on Ultrafast Intense Laser Science a newly emerging interdisciplinary research field that spans atomic and molecular physics molecular science and optical science It covers intense VUV laser cluster interaction resonance and chaos assisted tunneling and the effects of the carrier envelope phase on high order harmonic generation

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*Reviews Of Accelerator Science And Technology - Volume 10: The Future Of Accelerators* Weiren Chou,Alexander Wu Chao,2019-09-09 Volume 10 in the series of the annual journal Reviews of Accelerator Science and Technology RAST will be its final volume Its theme is The Future of Accelerators This volume together with previous 9 volumes gives readers a complete picture as well as detailed technical information about the accelerator field and its many driving and fascinating aspects This volume has 17 articles The first 15 articles have a different approach from the previous volumes They emphasize the more personal views perspectives and advice from the frontier researchers rather than provide a review or survey of a specific subfield This emphasis is more aligned with the theme of the current volume The other two articles are dedicated respectively to Leon Lederman and Burton Richter two prominent leaders of our community who left us last year

Frontiers of Materials Research National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Board on Physics and Astronomy,National Materials and Manufacturing Board,Committee on Frontiers of Materials Research: A Decadal Survey,2019-08-12 Modern materials science builds on knowledge from physics chemistry biology mathematics computer and data science and engineering sciences to enable us to understand control and expand the material world Although it is anchored in inquiry based fundamental science materials research is strongly focused on discovering and producing reliable and economically viable materials from super alloys to polymer composites that are used in a vast array of products essential to today s societies and economies Frontiers of Materials Research A Decadal Survey is aimed at documenting the status and promising future directions of materials research in the United States in the context of similar efforts worldwide This third decadal survey in materials research reviews the progress and achievements in materials research and changes in the materials research landscape over the last decade research opportunities for investment for the period 2020 2030 impacts that materials research has had and is expected to have on emerging technologies national needs and science and challenges

the enterprise may face over the next decade      **Departments of Commerce, Justice, Science, and Related Agencies Appropriations for Fiscal Year ...** United States. Congress. Senate. Committee on Appropriations,2007      *Reviews of Accelerator Science and Technology* Alexander W. Chao,Weiren Chou,2013-01-28 This book is dedicated to superconducting technology and its applications including superconducting magnets SC magnets and superconducting radio frequency SRF cavities      **Commerce, Justice, Science, and Related Agencies Appropriations for Fiscal Year 2007** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2006

**Reviews Of Accelerator Science And Technology - Volume 5: Applications Of Superconducting Technology To Accelerators** Alexander Wu Chao,Weiren Chou,2013-01-28 Over the past several decades major advances in accelerators have resulted from breakthroughs in accelerator science and accelerator technology After the introduction of a new accelerator physics concept or the implementation of a new technology a leap in accelerator performance followed A well known representation of these advances is the Livingston chart which shows an exponential growth of accelerator performance over the last seven or eight decades One of the breakthrough accelerator technologies that support this exponential growth is superconducting technology Recognizing this major technological advance we dedicate Volume 5 of *Reviews of Accelerator Science and Technology* RAST to superconducting technology and its applications Two major applications are superconducting magnets SC magnets and superconducting radio frequency SRF cavities SC magnets provide much higher magnetic field than their room temperature counterparts thus allowing accelerators to reach higher energies with comparable size as well as much reduced power consumption SRF technology allows field energy storage for continuous wave applications and energy recovery in addition to the advantage of tremendous power savings and better particle beam quality In this volume we describe both technologies and their applications We also include discussion of the associated R D in superconducting materials and the future prospects for these technologies      **High-Field MR Imaging** Jürgen Hennig,Oliver Speck,2011-08-31 This book describes the current status of the very rapidly developing field of high field MR and examines the possibilities challenges and limitations of this fascinating technology In the initial chapters the basic technological background is explained in a non technical way so as to promote understanding of the issues and concepts and avoid overwhelming the reader with excessive detail Safety issues methods and contrast are then carefully considered The final part of the book examines the diverse applications of high field MR imaging in radiology neuroscience oncology and other fields with the aid of numerous high quality illustrations All chapters are written by leading experts who have taken great care to illustrate the potential and progress of the field in an informative and accessible manner The book will appeal to all with a potential interest in the application of high field MR imaging including radiologists neuroscientists and oncologists      **Plasma Science** National Research Council,Division on Engineering and Physical Sciences,Board on Physics and Astronomy,Plasma Science Committee,Plasma 2010 Committee,2008-01-20 As part of its current physics decadal

survey Physics 2010 the NRC was asked by the DOE NSF and NASA to carry out an assessment of and outlook for the broad field of plasma science and engineering over the next several years The study was to focus on progress in plasma research identify the most compelling new scientific opportunities evaluate prospects for broader application of plasmas and offer guidance to realize these opportunities The study paid particular attention to these last two points This demand side perspective provided a clear look at what plasma research can do to help achieve national goals of fusion energy economic competitiveness and nuclear weapons stockpile stewardship The report provides an examination of the broad themes that frame plasma research low temperature plasma science and engineering plasma physics at high energy density plasma science of magnetic fusion space and astrophysical science and basic plasma science Within those themes the report offers a bold vision for future developments in plasma science Advanced Research Instrumentation and Facilities Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering, and Public Policy, Committee on Advanced Research Instrumentation, 2007-01-28 In recent years the instrumentation needs of the nation's research communities have changed and expanded The need for particular instruments has become broader crossing scientific and engineering disciplines The growth of interdisciplinary research that focuses on problems defined outside the boundaries of individual disciplines demands more instrumentation Instruments that were once of interest only to specialists are now required by a wide array of scientists to solve critical research problems The need for entirely new types of instruments such as distributed networks cyber tools and sensor arrays is increasing Researchers are increasingly dependent on advanced instruments that require highly specialized knowledge and training for their proper operation and use The National Academies Committee on Science Engineering and Public Policy Committee on Advanced Research Instrumentation was asked to describe the current programs and policies of the major federal research agencies for advanced research instrumentation the current status of advanced mid sized research instrumentation on university campuses and the challenges faced by each The committee was then asked to evaluate the utility of existing federal programs and to determine the need for and if applicable the potential components of an interagency program for advanced research instrumentation

*Final Report of the Committee on a Strategic Plan for U.S. Burning Plasma Research* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on a Strategic Plan for U.S. Burning Plasma Research, 2019-07-01 Fusion offers the prospect of virtually unlimited energy The United States and many nations around the world have made enormous progress toward achieving fusion energy With ITER scheduled to go online within a decade and demonstrate controlled fusion ten years later now is the right time for the United States to develop plans to benefit from its investment in burning plasma research and take steps to develop fusion electricity for the nation's future energy needs At the request of the Department of Energy the National Academies of Sciences Engineering and Medicine organized a committee to develop a strategic plan for U S fusion research The final report's two

main recommendations are 1 The United States should remain an ITER partner as the most cost effective way to gain experience with a burning plasma at the scale of a power plant 2 The United States should start a national program of accompanying research and technology leading to the construction of a compact pilot plant that produces electricity from fusion at the lowest possible capital cost

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