



Superconducting Accelerator Magnets

Mark Steyvers



Superconducting Accelerator Magnets:

Superconducting Accelerator Magnets K.-H. Mess, Peter Schmüser, S. Wolff, 1996 The main topic of the book are the superconducting dipole and quadrupole magnets needed in high energy accelerators and storage rings for protons antiprotons or heavy ions The basic principles of low temperature superconductivity are outlined with special emphasis on the effects which are relevant for accelerator magnets Properties and fabrication methods of practical superconductors are described Analytical methods for field calculation and multipole expansion are presented for coils without and with iron yoke The effect of yoke saturation and geometric distortions on field quality is studied Persistent magnetization currents in the superconductor and eddy currents the copper part of the cable are analyzed in detail and their influence on field quality and magnet performance is investigated Superconductor stability quench origins and propagation and magnet protection are addressed Some important concepts of accelerator physics are introduced which are needed to appreciate the demanding requirements on field quality in large storage rings The operational experience with the superconducting HERA collider serves as an illustration Finally superconducting correction coils and practical construction and fabrication methods of accelerator magnets are discussed The physical and technical principles described in the book are substantiated with a wealth of experimental data on multipoles persistent and eddy current effects quench performance and much more

Nb3Sn Accelerator Magnets Daniel Schoerling, Alexander V. Zlobin, 2019-08-30 This open access book is written by world recognized experts in the fields of applied superconductivity and superconducting accelerator magnet technologies It provides a contemporary review and assessment of the experience in research and development of high field accelerator dipole magnets based on Nb3Sn superconductor over the past five decades The reader attains clear insight into the development and the main properties of Nb3Sn composite superconducting wires and Rutherford cables and details of accelerator dipole designs technologies and performance Special attention is given to innovative features of the developed Nb3Sn magnets The book concludes with a discussion of accelerator magnet needs for future circular colliders **Nb3Sn**

Accelerator Magnets Alexander V Zlobin, Daniel Schoerling, 2020-10-08 This open access book is written by world recognized experts in the fields of applied superconductivity and superconducting accelerator magnet technologies It provides a contemporary review and assessment of the experience in research and development of high field accelerator dipole magnets based on Nb3Sn superconductor over the past five decades The reader attains clear insight into the development and the main properties of Nb3Sn composite superconducting wires and Rutherford cables and details of accelerator dipole designs technologies and performance Special attention is given to innovative features of the developed Nb3Sn magnets The book concludes with a discussion of accelerator magnet needs for future circular colliders Broadens our understanding of design and performance limits of high field Nb3Sn accelerator magnets for a future very high energy hadron collider Offers beginners a concise overview of the relevant design concepts for a new generation of superconducting

accelerator magnets based on Nb₃Sn superconductor Illustrates the complete process of accelerator magnet design and fabrication Provides a contemporary review and assessment of the past experience with Nb₃Sn high field dipole accelerator magnets Identifies the main open R D issues for Nb₃Sn high field dipole magnets This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use All rights not granted by the work s license are retained by the author or authors

High-field Superconducting Accelerator Magnets ,1982 The next generation of accelerators for high energy physics will require high field small bore dipole magnets in the region of 10 T and 40 mm diam For such magnets there is a great incentive to attain high overall current density through increasing the current density within the superconductor and minimizing the copper stabilizer Both Nb Ti operating at 1.8 K and Nb₃Sn at 4.2 are candidate superconductors Two programs in the US and one in Japan are directed toward the development of such magnets The program at LBL is described below

Thermo-magnetic Instabilities in Nb₃Sn Superconducting Accelerator Magnets Bernardo Bordini,2006 The advance of High Energy Physics research using circulating accelerators strongly depends on increasing the magnetic bending field which accelerator magnets provide To achieve high fields the most powerful present day accelerator magnets employ NbTi superconducting technology however with the start up of Large Hadron Collider LHC in 2007 NbTi magnets will have reached the maximum field allowed by the intrinsic properties of this superconductor A further increase of the field strength necessarily requires a change in superconductor material the best candidate is Nb sub 3 Sn Several laboratories in the US and Europe are currently working on developing Nb sub 3 Sn accelerator magnets and although these magnets have great potential it is suspected that their performance may be fundamentally limited by conductor thermo magnetic instabilities an idea first proposed by the Fermilab High Field Magnet group early in 2003 This thesis presents a study of thermo magnetic instability in high field Nb sub 3 Sn accelerator magnets In this chapter the following topics are described the role of superconducting magnets in High Energy Physics the main characteristics of superconductors for accelerator magnets typical measurements of current capability in superconducting strands the properties of Nb sub 3 Sn a description of the manufacturing process of Nb sub 3 Sn strands superconducting cables a typical layout of superconducting accelerator magnets the current state of the art of Nb sub 3 Sn accelerator magnets the High Field Magnet program at Fermilab and the scope of the thesis

Superconducting Accelerator Magnets ,1992 This paper reviews the basic mechanical designs of most of the superconducting magnets developed for high energy hadron accelerators The training performance of these magnets is compared with an instability factor defined by the square of the current density in the stabilizing copper divided by the surface to volume ratio of the strands A good correlation is observed

Design Considerations for Fast-cycling Superconducting Accelerator Magnets of 2 T B-field Generated by a Transmission Line Conductor of Up to 100 KA Current ,2007 Recently proposed synchrotrons SF SPS at CERN and DSF MR at Fermilab would operate with a 0.5 Hz cycle or 2 second time period while accelerating protons to 480 GeV We examine possibilities of

superconducting magnet technology that would allow for an accelerator quality magnetic field sweep of 2 T/s. For superconducting magnets the cryogenic cooling power demand due to AC losses in the superconductor leads to a high operational cost. We outline a novel magnet technology based on HTS superconductors that may allow to reduce AC losses in the magnet coil possibly up to an order of magnitude as compared to similar applications based on LTS type superconductors.

New Techniques for Future Accelerators III G. Torelli, 2012-12-06 A fundamental step towards gaining a deeper understanding of our world is to increase the resolution of the investigative instruments we use, i.e. to increase the energy and hence to decrease the wavelength of the particles which constitute our probes. Almost any substantial progress in our understanding of the fundamental laws of Nature has been obtained when a new generation of accelerators has allowed us to achieve a new energy range. The new results have generated new questions thus encouraging us to construct new machines to reach even higher energy levels. The relative energy gain from one generation of accelerators to the next is progressively increasing. The energy gain suggested by the theoretical predictions at the time has usually been much greater than the value allowed by our technical capabilities. But this smaller energy gain permitted by accelerator technology improvement has generally been sufficient up until now to bring about a substantial increase in our knowledge. Hence a large increase in accelerator energy is very important and we know that this result can essentially be obtained by developing some new device or some new approach.

Analysis of Voltage Signals from Superconducting Accelerator Magnets, 2009 We present two techniques used in the analysis of voltage tap data collected during recent tests of superconducting magnets developed by the Superconducting Magnet Program at Lawrence Berkeley National Laboratory. The first technique was used on a quadrupole to provide information about quench origins that could not be obtained using the time of flight method. The second technique illustrates the use of data from transient flux imbalances occurring during magnet ramping to diagnose changes in the current temperature margin of a superconducting cable. In both cases the results of this analysis contributed to make improvements on subsequent magnets.

Superconducting Magnet Systems H. Brechna, 2011-12-15 The renaissance of magnet technology started in the early 1950s with the establishment of high energy accelerators. About a decade later in 1961 or fifty years after the discovery of superconductivity high field superconducting laboratory magnets became a reality. Conventional still the major beam handling and experimental electromagnets which are still devices used in laboratories operate at zero efficiency. To generate high magnetic fields in a useful volume considerable amounts of power are needed. Superconducting dc magnets do not require any power at all. It is somewhat depressing to note that sixty years after the first superconductor was tested the experimental dc superconducting magnet is still the only large scale equipment operated in laboratories. Although there has been considerable activity in the area of superconductivity superconductors are used on quite a modest scale in electronic and quantum devices in medicine and biology and in physical experiments where high magnetic fields are essential. It is only recently that Type II superconductors have been introduced.

in power engineering power generation storage and transport to replace pulsed accelerator magnets for fast and economical transportation vehicles levitated trains where superconductors may ultimately replace the wheel to make new means of energy generation economically feasible such as in magneto hydrodynamics and in fusion reactors and for high efficiency electric motors High field superconducting magnets are being proposed for desalination of seawater for magnetic separation in the mining industry for cleaning polluted water and for sewage treatment

Magnetic and Thermal Stability of Superconducting Accelerator Magnets, 1973 *Recent Status of Superconductors for Accelerator Magnets*, 1992 A survey is given of superconductor wire and cable which has been or will be used for construction of dipole magnets for all of the large European and US superconducting accelerator rings Included is a simplified view of the construction methods and operating requirements of an accelerator dipole magnet with emphasis on required superconductor performance The methods of fabricating Nb Ti superconductors are described including the critical parameters and materials requirements The superconductor performance requirements are summarized in an effort to relate why these are important to accelerator designers Some of the recently observed time dependent effects are covered briefly

Magnetization, Critical Current, and Injection Field Harmonics in Superconducting Accelerator Magnets, 1985 The very large energy ratio of machines such as the SSC dictates rather low injection field for 6T 20 TeV it is approximately 0.3T Since the harmonic content at such low fields is largely determined by magnetization currents in the superconductor the random errors depend on the uniformity of the superconducting wire In principle the magnitude of the residual fields can be reduced indefinitely by using finer filaments but in practice there is a lower limit of a few microns We have compared the injection field harmonics for a number of accelerator dipoles with magnetization measurements made on samples of the conductor used to wind the coils In addition both the magnetization and harmonics have been compared with short sample critical current measurements made at 5T The results indicated that an accurate estimate of the variation in injection field harmonics can only be obtained from direct measurements of the magnetization of the cable It appears feasible to use such measurements to shuffle magnets for a large accelerator by predicting the low field properties of a magnet before actually winding the coils 10 refs 4 figs 2 tabs

Estimating and Adjusting Field Quality in Superconducting Accelerator Magnets, 1996 **A Facility to Test Short Superconducting Accelerator Magnets at Fermilab**, 1992 During the past four years the Superconducting Magnet R D facility at Fermilab Lab 2 has successfully tested superconducting dipole quadrupole and correction coil magnets less than 2 meters in length for the SSC project and the Tevatron D0 B0 Low beta Insertion During this time several improvements have been made to the facility that have greatly enhanced its magnet testing capabilities Among the upgrades have been a new rotating coil and data acquisition system for measuring magnetic fields a controlled flow liquid helium transfer line using an electronically actuated cryo valve and stand alone systems for measuring AC loss and training low current Tevatron correction coil packages A description of the Lab 2 facilities is presented

Thermo-magnetic

Instabilities in Nb₃Sn Superconducting Accelerator Magnets, 2006 The advance of High Energy Physics research using circulating accelerators strongly depends on increasing the magnetic bending field which accelerator magnets provide To achieve high fields the most powerful present day accelerator magnets employ NbTi superconducting technology however with the start up of Large Hadron Collider LHC in 2007 NbTi magnets will have reached the maximum field allowed by the intrinsic properties of this superconductor A further increase of the field strength necessarily requires a change in superconductor material the best candidate is Nb₃Sn Several laboratories in the US and Europe are currently working on developing Nb₃Sn accelerator magnets and although these magnets have great potential it is suspected that their performance may be fundamentally limited by conductor thermo magnetic instabilities an idea first proposed by the Fermilab High Field Magnet group early in 2003 This thesis presents a study of thermo magnetic instability in high field Nb₃Sn accelerator magnets In this chapter the following topics are described the role of superconducting magnets in High Energy Physics the main characteristics of superconductors for accelerator magnets typical measurements of current capability in superconducting strands the properties of Nb₃Sn a description of the manufacturing process of Nb₃Sn strands superconducting cables a typical layout of superconducting accelerator magnets the current state of the art of Nb₃Sn accelerator magnets the High Field Magnet program at Fermilab and the scope of the thesis

Progress with High-field Superconducting Magnets for High-energy Colliders, 2015 One of the possible next steps for high energy physics research relies on a high energy hadron or muon collider The energy of a circular collider is limited by the strength of bending dipoles and its maximum luminosity is determined by the strength of final focus quadrupoles For this reason the high energy physics and accelerator communities have shown much interest in higher field and higher gradient superconducting accelerator magnets The maximum field of NbTi magnets used in all present high energy machines including the LHC is limited to 10 T at 1.9 K Fields above 10 T became possible with the use of Nb₃Sn superconductors Nb₃Sn accelerator magnets can provide operating fields up to 15 T and can significantly increase the coil temperature margin Accelerator magnets with operating fields above 15 T require high temperature superconductors Furthermore this review discusses the status and main results of Nb₃Sn accelerator magnet research and development and work toward 20 T magnets

Superconducting magnet systems H. Brechna, 1973 Recent Advances in the Technology of Superconducting Accelerator Magnets, 1985 Recent progress in technology of high current density cables for SSC model magnets is summarized NbTi cable with $J_{sub c}$ up to 50% higher than Tevatron cable can be expected Magnetization effects can be predicted and corrected with several new techniques Development of Superconductor with 2 to 3 μm filament diameter and high $J_{sub c}$ is expected 15 refs 3 figs

Final Report-MATERIALS, STRANDS, AND CABLES FOR SUPERCONDUCTING ACCELERATOR MAGNETS., 2014 This report focuses on Materials Strands and Cables for High Energy Physics Particle accelerators In the materials area work has included studies of basic reactions diffusion

transformations and phase assemblage of Nb₃Sn These materials science aspects have been married to results in the form of flux pinning Bc₂ Birr and transport J_c with an emphasis on obtaining the needed J_c for HEP needs Attention has also been paid to the intermediate temperature superconductor magnesium diboride emphasis being placed on i irreversibility field enhancement ii critical current density and flux pinning and iii connectivity We also report on studies of Bi 2212 The second area of the program has been in the area of Strands in which aside from the materials aspect of the conductor its physical properties and their influence on performance have been studied Much of this work has been in the area of magnetization estimation and flux jump calculation and control One of the areas of this work was strand instabilities in high performance Nb₃Sn conductors due to combined fields and currents Additionally we investigated quench and thermal propagation in YBCO coated conductors at low temperatures and high fields The last section Cables focussed on interstrand contact resistance ICR its origins control and implications Following on from earlier work in NbTi the present work in Nb₃Sn has aimed to make ICR intermediate between the two extremes of too little contact no current sharing and too much large and unacceptable magnetization and associated beam de focussing Interstrand contact and current sharing measurements are being made on YBCO based Roebel cables using transport current methods Finally quench was investigated for YBCO cables and the magnets wound from them presently with a focus on 50 T solenoids for muon collider applications

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Table of Contents Superconducting Accelerator Magnets

1. Understanding the eBook Superconducting Accelerator Magnets
 - The Rise of Digital Reading Superconducting Accelerator Magnets
 - Advantages of eBooks Over Traditional Books
2. Identifying Superconducting Accelerator Magnets
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Superconducting Accelerator Magnets
 - User-Friendly Interface
4. Exploring eBook Recommendations from Superconducting Accelerator Magnets
 - Personalized Recommendations
 - Superconducting Accelerator Magnets User Reviews and Ratings
 - Superconducting Accelerator Magnets and Bestseller Lists
5. Accessing Superconducting Accelerator Magnets Free and Paid eBooks
 - Superconducting Accelerator Magnets Public Domain eBooks
 - Superconducting Accelerator Magnets eBook Subscription Services
 - Superconducting Accelerator Magnets Budget-Friendly Options
6. Navigating Superconducting Accelerator Magnets eBook Formats

- ePub, PDF, MOBI, and More
 - Superconducting Accelerator Magnets Compatibility with Devices
 - Superconducting Accelerator Magnets Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Superconducting Accelerator Magnets
 - Highlighting and Note-Taking Superconducting Accelerator Magnets
 - Interactive Elements Superconducting Accelerator Magnets
 8. Staying Engaged with Superconducting Accelerator Magnets
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Superconducting Accelerator Magnets
 9. Balancing eBooks and Physical Books Superconducting Accelerator Magnets
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Superconducting Accelerator Magnets
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Superconducting Accelerator Magnets
 - Setting Reading Goals Superconducting Accelerator Magnets
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Superconducting Accelerator Magnets
 - Fact-Checking eBook Content of Superconducting Accelerator Magnets
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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