APPLICATIONS OF High Temperature Superconductors TO Electric Power Equipment















SWARN SINGH KALSI





C. Rey

Applications of High Temperature Superconductors to Electric Power Equipment Swarn S. Kalsi, 2011-04-18 The only one stop reference to design analysis and manufacturing concepts for power devices utilizing HTS High temperature superconductors HTS have been used for building many devices for electric grids worldwide and for large ship propulsion motors for the U S Navy And yet there has been no single source discussing theory and design issues relating to power applications of HTS until now This book provides design and analysis for various devices and includes examples of devices built over the last decade Starting with a complete overview of HTS the subsequent chapters are dedicated to specific devices cooling and thermal insulation systems rotating AC and DC machines transformers fault current limiters power cables and Maglev transport As applicable each chapter provides a history of the device principles configuration design and design challenges prototypes and manufacturing issues with each ending with a summary of the material covered The design analysis and design examples provide critical insight for readers to successfully design their own devices Original equipment manufacturer OEM designers industry and utilities users universities and defense services research groups and senior postgraduate engineering students and instructors will rely on this resource HTS technology reduces electric losses and increases the efficiency of power equipment This book by Swarn Kalsi a leading expert on the HTS subject provides a survey of the HTS technology and the design rules performance analyses and manufacturing concepts for power application related devices It compares conventional and HTS technology approaches for device design and provides significant examples of devices utilizing the HTS technology today The book is useful for a broad spectrum of professionals worldwide students teaching staff and OEM designers as well as users in industry and electric utilities Professor Dr Rolf Hellinger Research and Technologies Corporate Technology Siemens AG **Superconductors in the Power Grid** C. Rev, 2015-04-20 Superconductors offer high throughput with low electric losses and have the potential to transform the electric power grid Transmission networks incorporating cables of this type could for example deliver more power and enable substantial energy savings Superconductors in the Power Grid Materials and Applications provides an overview of superconductors and their applications in power grids Sections address the design and engineering of cable systems and fault current limiters and other emerging applications for superconductors in the power grid as well as case studies of industrial applications of superconductors in the power grid Expert editor from highly respected US government funded research centre Unique focus on superconductors in the power grid Comprehensive coverage Fluorescent thermal imaging method for investigating transient effects in high-temperature superconductor tapes and coils Gyuráki, Roland, 2022-02-24 This work presents the development and application of high speed fluorescent thermal imaging for quench analysis in high temperature superconductors HTS Using a fluorescent coating with a temperature dependent light emission temperature changes can be calculated over 2D surfaces The technique uncovered peculiar transient effects in novel HTS tape

architectures and also helped to verify and better understand hot spot development in both insulated and non insulated HTS wound pancake coils Electrified Aircraft Propulsion Kiruba Haran, Nateri Madavan, Tim C. O'Connell, 2022-05-26 What are the benefits of electrified propulsion for large aircraft What technology advancements are required to realize these benefits How can the aerospace industry transition from today s technologies to state of the art electrified systems Learn the answers with this multidisciplinary text combining expertise from leading researchers in electrified aircraft propulsion The book includes broad coverage of electrification technologies spanning power systems and power electronics materials science superconductivity and cryogenics thermal management battery chemistry system design and system optimization and a clear cut road map identifying remaining gaps between the current state of the art and future performance technologies Providing expert guidance on areas for future research and investment and an ideal introduction to cutting edge advances and outstanding challenges in large electric aircraft design this is a perfect resource for graduate students researchers electrical and aeronautical engineers policymakers and management professionals interested in next generation commercial flight **Electrical Drives for Direct Drive Renewable Energy Systems** Markus Mueller, Henk technologies Polinder, 2013-03-25 Wind turbine gearboxes present major reliability issues leading to great interest in the current development of gearless direct drive wind energy systems Offering high reliability high efficiency and low maintenance developments in these direct drive systems point the way to the next generation of wind power and Electrical drives for direct drive renewable energy systems is an authoritative guide to their design development and operation Part one outlines electrical drive technology beginning with an overview of electrical generators for direct drive systems Principles of electrical design for permanent magnet generators are discussed followed by electrical thermal and structural generator design and systems integration A review of power electronic converter technology and power electronic converter systems for direct drive renewable energy applications is then conducted Part two then focuses on wind and marine applications beginning with a commercial overview of wind turbine drive systems and an introduction to direct drive wave energy conversion systems The commercial application of these technologies is investigated via case studies on the permanent magnet direct drive generator in the Zephyros wind turbine and the Archimedes Wave Swing AWS direct drive wave energy pilot plant Finally the book concludes by exploring the application of high temperature superconducting machines to direct drive renewable energy systems With its distinguished editors and international team of expert contributors Electrical drives for direct drive renewable energy systems provides a comprehensive review of key technologies for anyone involved with or interested in the design construction operation development and optimisation of direct drive wind and marine energy systems An authorative guide to the design development and operation of gearless direct drives Discusses the principles of electrical design for permanent magnet generators and electrical thermal and structural generator design and systems integration Investigates the commercial applications of wind turbine drive systems Design of a superconducting DC

wind generator Liu, Yingzhen, 2020-11-18 The trend towards larger power ratings of wind turbines asks for innovations in power generation which requires lower weight and cost smaller size higher efficiency and reliability Due to high current carrying capability and no DC losses of superconductors a superconducting wind generator can have a superior power to weight volume ratio with high efficiency. The work in the book mainly focuses on the feasibility study and design of a superconducting DC wind generator Electric Aircraft Dynamics Ranjan Vepa, 2020-07-29 Electric Aircraft Dynamics A Systems Engineering Approach surveys engineering sciences that underpin the dynamics control monitoring and design of electric propulsion systems for aircraft It is structured to appeal to readers with a science and engineering background and is modular in format The closely linked chapters present descriptive material and relevant mathematical modeling techniques Taken as a whole this ground breaking text equips professional and student readers with a solid foundation for advanced work in this emerging field Key Features Provides the first systems based overview of this emerging aerospace technology Surveys low weight battery technologies and their use in electric aircraft propulsion Explores the design and use of plasma actuation for boundary layer and flow control Considers the integrated design of electric motor driven propellers Includes PowerPoint slides for instructors using the text for classes Dr Ranjan Vepa earned his PhD in applied mechanics from Stanford University California He currently serves as a lecturer in the School of Engineering and Material Science Queen Mary University of London where he has also been the programme director of the Avionics Programme since 2001 Dr Vepa is a member of the Royal Aeronautical Society London the Institution of Electrical and Electronic Engineers IEEE New York a Fellow of the Higher Education Academy a member of the Royal Institute of Navigation London and a chartered engineer

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