

Understanding FACTS. Concepts and Technology of Flexible AC Transmission Systems

Description:

Electrical Engineering Understanding FACTS: Concepts and Technology of Flexible AC Transmission Systems The Flexible AC Transmission System (FACTS) a new technology based on power electronics, offers an opportunity to enhance controllability, stability, and power transfer capability of ac transmission systems. Pioneers in FACTS and leading world experts in power electronics applications, Narain G. Hingorani and László Gyugyi, have teamed together to bring you the definitive book on FACTS technology. Drs. Hingorani and Gyugyi present a practical approach to FACTS that will enable electrical engineers working in the power industry to understand the principles underlying this advanced system. Understanding FACTS will enhance your expertise in equipment specifications and engineering design, and will offer you an informed view of the future of power electronics in ac transmission systems. This comprehensive reference book provides in-depth discussions on:

- Power semiconductor devices
- Voltage-sourced and current-sourced converters
- Specific FACTS Controllers, including SVC, STATCOM, TCSC, SSSC, UPFC, IPFC plus voltage regulators, phase shifters, and special Controllers with a detailed comparison of their performance attributes
- Major FACTS applications in the U.S.

Understanding FACTS is an authoritative resource that is essential reading for electrical engineers who want to stay on the cusp of the power electronics revolution.

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Fernando Adolfo Mancilla-Davd



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Understanding FACTS Narain G. Hingorani, Laszlo Gyugyi, 2000 The Flexible AC Transmission System FACTS a new technology based on power electronics offers an opportunity to enhance controllability stability and power transfer capability of ac transmission systems Two pioneers in the field provide in depth discussions on power semiconductor devices voltage sourced and current sourced converters specific FACTS controllers and major FACTS applications in the U S

Understanding FACTS Narain G. Hingorani, Laszlo Gyugyi, 2001-01-01 This comprehensive book provides in depth discussions on Power Semiconductor Devices n Voltage Sourced and Current Sourced Converters n Specific FACTS Controllers including SVC STATCOM TCSC SSSC UPFC IPFC plus voltage regulators phase shifters and Special Controllers with a detailed comparison of their performance attributes n Major FACTS applications in the U S Understanding FACTS is an authoritative resource that is essential reading for electrical engineers who want to stay on the cusp of the power electronics revolution

Application of Flexible AC Transmission System Devices in Wind Energy Conversion Systems Ahmed Abu-Siada, Farhad Shahnian, A. M. Shiddiq Yunus, 2017-09-28 This book presents information about the application of various flexible AC transmission system devices to wind energy conversion systems Devices such as unified power flow controllers superconducting magnetic energy storage and static synchronous compensators are covered in this book Chapters detail features of the topology and basic control systems of each device Additionally case studies are presented where necessary to demonstrate practical applications This book is a reference for students and technicians studying wind power and AC transmission systems in advanced engineering courses

Flexible AC Transmission Systems: Modelling and Control Xiao-Ping Zhang, Christian Rehtanz, Bikash Pal, 2012-02-24 The extended and revised second edition of this successful monograph presents advanced modeling analysis and control techniques of Flexible AC Transmission Systems FACTS The book covers comprehensively a range of power system control problems from steady state voltage and power flow control to voltage and reactive power control to voltage stability control to small signal stability control using FACTS controllers In the six years since the first edition of the book has been published research on the FACTS has continued to flourish while renewable energy has developed into a mature and booming global green business The second edition reflects the new developments in converter configuration smart grid technologies super power grid developments worldwide new approaches for FACTS control design new controllers for distribution system control and power electronic controllers in wind generation operation and control The latest trends of VSC HVDC with multilevel architecture have been included and four completely new chapters have been added devoted to Multi Agent Systems for Coordinated Control of FACTS devices Power System Stability Control using FACTS with Multiple Operating Points Control of a Looping Device in a Distribution System and Power Electronic Control for Wind Generation

Advanced Technologies for Future Transmission Grids Gianluigi Migliavacca, 2012-12-04 The re engineering of power transmission systems is crucial to meeting the objectives of such

regulators as the European Union In addition to its market organisational and regulatory aspects this re engineering will also involve technical issues dealing with the progressive integration of innovative transmission technologies in the daily operation of transmission system operators In this context Advanced Technologies for Future Transmission Grids provides an overview of the most promising technologies likely to be of help to planners of transmission grids in responding to the challenges of the future security of supply integration of renewable generation and creation of integrated energy markets using the European case as an example These issues have increased importance because of administrative complication and the fragmentation of public opinion expressed on the build up of new infrastructure For each technology discussed the focus is on the technical economic perspective rather than on purely technological points of view A transmission system operator targeted Technology Roadmap is presented for the integration of promising innovative power transmission technologies within power systems of the mid long term Although the primary focus of this text is in the sphere of the European energy market the lessons learned can be generalized to the energy markets of other regions

Power System Restructuring and Deregulation Loi Lei Lai,2001-11-28 The restructuring and deregulation of the power utility industry is resulting in significant competitive technological and regulatory changes Independent power producers power marketers and brokers have added a new and significant dimension to the task of maintaining a reliable electric system Power System Restructuring and Deregulation provides comprehensive coverage of the technological advances which have helped redesign the ways in which utility companies manage their business With the aid of practical case studies an international panel of contributors address the most up to date problems and their solutions in a cohesive manner making this book indispensable to graduates and engineers in the power industry field Presents state of the art techniques in power industry restructuring Includes applications of new technology in power industry deregulation Includes practical examples of changes in load forecasting techniques and methods International contributors offer a global perspective detailing power utility restructuring and deregulation from various countries

Flexible Power Transmission Jos Arrillaga,Y. H. Liu,Neville R. Watson,2007-09-27 The development of power semiconductors with greater ratings and improved characteristics has meant that the power industry has become more willing to develop new converter configurations These new configurations take advantage of the higher controllability and switching frequencies of the new devices The next few years will decide which of the proposed technologies will dominate future power transmission systems Flexible Power Transmission is a comprehensive guide to the high voltage direct current HVDC options available helping the reader to make informed decisions for designing future power transmission systems The book includes a full description of the principles and components in existing converter technology as well as alternative proposals for self commutating conversion A review of the state of power semiconductors suited to HVDC transmission and present proposals for multi level HVDC transmission a detailed overview of the flexible HVDC methods for improving controllability and increasing power transfer capability in electrical power systems up to date

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of renewable technologies is having an increasing impact on network development New challenges are arising from environmental regulatory political and social factors which impact on the development of transmission networks

IEEE/PES Transmission and Distribution Conference and Exhibition 2002: Asia Pacific ,2002 AC Link Load Flow Control in Electric Power Systems Fernando Adolfo Mancilla-Davd,2007 **Dynamics of Continuous, Discrete & Impulsive Systems ,2007 IEEE Africon ,2004 Eighth IEE International Conference on Developments in Power System Protection, 5-8 April, 2004, RAI Centre, Amsterdam, The Netherlands ,2004 IEEE Transmission and Distribution Conference and Exposition ,2001 Maintaining Mission Critical Systems in a 24/7 Environment** Peter M. Curtis,2007-03-09 The latest tested and proven strategies to maintain business resiliency and sustainability for our ever growing global digital economy Here is a comprehensive study of the fundamentals of mission critical systems which are designed to maintain ultra high reliability availability and resiliency of electrical mechanical and digital systems and eliminate costly downtime Readers learn all the skills needed to design fine tune operate and maintain mission critical equipment and systems Practical in focus the text helps readers configure and customize their designs to correspond to their organizations unique needs and risk tolerance Specific strategies are provided to deal with a wide range of contingencies from power failures to human error to fire In addition the author highlights measures that are mandated by policy and regulation The author of this text has worked in mission critical facilities engineering for more than twenty years serving clients in banking defense utilities energy and education environments His recommendations for maintaining essential operations are based on firsthand experience of what works and what does not Most chapters in this text concentrate on an individual component of the mission critical system including standby generators automatic transfer switches uninterruptible power supplies and fuel fire and battery systems For each component the author sets forth applications available models design choices standard operating procedures emergency action plans maintenance procedures and applicable codes and standards Extensive use of photographs and diagrams illustrates how individual components and integrated systems work With the rapid growth of e commerce and 24 7 business operations mission critical systems have moved to the forefront of concerns among both private and public operations Facilities engineers senior administrators and business continuity professionals involved in information technology and data center design should consult this text regularly to ensure they have done everything they can to protect and sustain their operations to reduce human error equipment failures and other critical events Adapted from material the author has used in academic and professional training programs this guide is also an ideal desktop reference and textbook

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