

Understanding Facts Devices By Hingorani

Narain G. Hingorani, Laszlo Gyugyi

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, 2000

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.

Thyristor-Based FACTS Controllers for Electrical Transmission Systems R. Mohan Mathur, Rajiv K. Varma, 2002-02-27 Theoretische Grundlagen und praktische Details werden in diesem Band gleichermaßen tiefgründig abgehandelt. Beispiele und Fallstudien zum Entwurf von Steuerungen und zur Messung der Leistungsfähigkeit runden den Text ab.

FACTS Controllers K. R PADIYAR, 2020-10 Key Features: Concepts are explained with illustrative examples and case studies. Applications of SVC, TCSC, GCSC, SPST, STATCOM, SSSC, UPFC, IPFC and IPC for voltage/power control in transmission

systems. Application of DSTATCOM, DVR and UPQC for improving power quality in distribution systems. Design of Power Oscillation Damping (POD) controllers. Mitigation of SSR using series FACTS Controllers. About the Book: The emerging technology of Flexible AC Transmission System (FACTS) enables planning and operation of power systems at minimum cost, without compromising security. This is based on modern high power electronic systems that provide fast controllability to ensure 'flexible' operation under changing system conditions. This book presents a comprehensive treatment of the subject by discussing the operating principles, mathematical models, control design and issues that affect the applications.

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 Solutions in Power Systems Mircea Eremia, Chen-Ching Liu, Abdel-Aty Edris, 2016-09-27 Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement, transmission capability enhancement and operation planning. The book is organized into three parts. The first part describes the CSC-HVDC and VSC-HVDC technologies, the second part presents the FACTS devices, and the third part refers to the artificial intelligence techniques. All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements. Discusses detailed operating principles and diagrams, theory of modeling, control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems, from planning and monitoring to operation and control Each chapter is carefully edited, with drawings and illustrations that helps the reader to easily understand the principles of operation or application **Advanced Solutions in Power Systems: HVDC, FACTS, and Artificial Intelligence** is written for graduate students, researchers in transmission and distribution networks, and power system operation. This book also serves as a reference for professional software developers and practicing engineers.

Power Quality Enhancement Using Custom Power Devices Arindam Ghosh, Gerard Ledwich, 2012-12-06

Power Quality Enhancement Using Custom Power Devices considers the structure, control and performance of series compensating DVR, the shunt DSTATCOM and the shunt with series UPQC for power quality improvement in electricity distribution. Also addressed are other power electronic devices for improving power quality in Solid State Transfer Switches and Fault Current Limiters. Applications for these technologies as they relate to compensating busses supplied by a weak line and for distributed generation connections in rural networks, are included. In depth treatment of inverters to achieve voltage support, voltage balancing, harmonic suppression and transient suppression in realistic network environments are also covered. New material on the potential for shunt and series compensation which emphasizes the importance of control design has been introduced.

Power Electronics in Renewable Energy Systems and Smart Grid Bimal K. Bose, 2019-08-06

The comprehensive and authoritative guide to power electronics in renewable energy systems Power electronics plays a significant role in modern industrial automation and high- efficiency energy systems. With contributions from an international group of noted experts, Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications offers a comprehensive review of the technology and applications of power electronics in renewable energy systems and smart grids. The authors cover information on a variety of energy systems including wind, solar, ocean, and geothermal energy systems as well as fuel cell systems and bulk energy storage systems. They also examine smart grid elements, modeling, simulation, control, and AI applications. The book's twelve chapters offer an application-oriented and tutorial viewpoint and also contain technology

status review. In addition, the book contains illustrative examples of applications and discussions of future perspectives. This important resource: Includes descriptions of power semiconductor devices, two level and multilevel converters, HVDC systems, FACTS, and more Offers discussions on various energy systems such as wind, solar, ocean, and geothermal energy systems, and also fuel cell systems and bulk energy storage systems Explores smart grid elements, modeling, simulation, control, and AI applications Contains state-of-the-art technologies and future perspectives Provides the expertise of international authorities in the field Written for graduate students, professors in power electronics, and industry engineers, Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications offers an up-to-date guide to technology and applications of a wide-range of power electronics in energy systems and smart grids.

Static Power Frequency Changers L. Gyugyi, Laszlo Gyugyi, B. R. Pelly, 1976

FACTS Enrique Acha, Claudio R. Fuerte-Esquivel, Hugo Ambriz-Pérez, César Angeles-Camacho, 2004-10-22 The first book to provide comprehensive coverage of FACTS power systems modeling and simulation. * Detailed coverage of the development of FACTS controllers and guidance on the selection of appropriate equipment * Computer modelling examples of the FACTS controllers for steady-state and transient stability systems * Numerous case studies and practical examples

Flexible AC Transmission Systems Bjarne R. Andersen, Stig L. Nilsson, 2020-07-16 This Green Book offers the outstanding expertise of CIGRE professionals about Flexible AC Transmission Systems (FACTS) in one concise handbook. FACTS are used to enhance AC power networks, by providing

fast control of power flows and AC voltage and AC phase angles. They can be used to defer the need for additional power lines, by controlling the power flow on lines to achieve maximum utilisation of the existing lines, and/or by improving the power quality, e.g. when large disturbing loads are connected to the network. This Green Book on FACTS provides comprehensive information about the use of Power Electronics for AC system control and for Power Quality Improvement in its over 1000 pages. This book has been written by experts in the field, who come from Transmission System Operators, Network owners, manufacturers, and consultants in this field. This Green Book on FACTS covers a large range of topics in its 6 sections, as follows: AC Systems Characteristics, AC network control using conventional means and AC network control using FACTS Controllers Technical Descriptions of all current FACTS controllers, power electronic Topologies for FACTS, SVCs, STATCOM, TCSC and the UPFC and its variations Application Examples of all FACTS controllers, which include a description of controllers using saturation of iron as well as examples of all current FACTS controllers Planning and Procurement, including economic appraisals and cost benefit analysis, planning studies, environmental considerations, functional specifications Implementation of FACTS controllers, including integration and design studies, equipment design and testing and commissioning FACTS operation and lifetime management.

Small-signal stability, control and dynamic performance of power systems M.J Gibbard, D.J. Vowles, P. Pourbeik, 2015-07-15 A thorough and exhaustive presentation of theoretical analysis and practical techniques for the small-signal analysis and control of large modern electric power systems as well as an assessment of their

stability and damping performance.

Modelling Flexible AC Transmission Systems (FACTS) Devices on Weak Transmission Lines in the Nigerian Power Network Olalekan

Olagunju, 2020-02-26 Research Paper (postgraduate) from the year 2019 in the subject

Electrotechnology, , language: English, abstract:

The aim of the study is to model FACTS devices on weak transmission line in the Nigeria power network and consider their effect on the bus voltages, reactive and active power using genetic algorithm(GA) approach for loss minimization. The Nigeria 330KV existing network to be considered consist of nine (9) generating stations, thirty(30) Buses and forty one (41) transmission lines which will be modelled and simulated using Matlab Version 7.10. The study is limited to Nigeria 330kV existing power network with the focus on the comparison of the Bus voltages and power flow on the transmission lines when FACTS devices are incorporated and when the FACTS devices are not incorporated. Research Questions: For the realization of the objectives mentioned above and the aim, the following research questions were set as a guide: 1. What is the significant effect of FACTS devices on weak transmission lines? 2. Can FACTS device be used with genetic algorithm for optimization of power loss and improvement of the bus voltages? 3. What is the limitation of using just genetic algorithm without FACTS device for the optimization of power loss and the improvement of the bus voltages? This research work is divided into five chapters with each chapter buttressing more on minimization of power loss. The scope of the work , the objective and aim of the research work to be achieved is addressed in chapter one (1). Chapter two(2) focus on the literature review of other researchers on FACTS device in the improvement of the power network, the concept of FACTS device and the

choice of FACTS device to be used was also addressed in chapter two (2) of this research work. Chapter three focus on the methodology used for this study. The simulation of the 330kV Nigeria power network was done on MATLAB /SIMULINK 7.5. Also the chapter three focused on the use of power flow analysis toolbox which is a collection of a written codes of m files that has a compatible interface with MATLAB to generate the load flow of the power network instead of using ETAP. The genetic algorithm was also discussed as an optimization tool deployed to optimize the losses on the transmission line. Chapter four focus on the research findings with possible explanation as to some of the result obtained. Finally chapter five talks about the conclusion of this research work and highlight some areas to explore in the future.

Transient Analysis of Power Systems Juan A. Martinez-Velasco, 2020-02-10 A hands-on introduction to advanced applications of power system transients with practical examples Transient Analysis of Power Systems: A Practical Approach offers an authoritative guide to the traditional capabilities and the new software and hardware approaches that can be used to carry out transient studies and make possible new and more complex research. The book explores a wide range of topics from an introduction to the subject to a review of the many advanced applications, involving the creation of custom-made models and tools and the application of multicore environments for advanced studies. The authors cover the general aspects of the transient analysis such as modelling guidelines, solution techniques and capabilities of a transient tool. The book also explores the usual application of a transient tool including over-voltages, power quality studies and simulation of power electronics devices. In addition, it contains an

introduction to the transient analysis using the ATP. All the studies are supported by practical examples and simulation results. This important book: Summarises modelling guidelines and solution techniques used in transient analysis of power systems Provides a collection of practical examples with a detailed introduction and a discussion of results Includes a collection of case studies that illustrate how a simulation tool can be used for building environments that can be applied to both analysis and design of power systems Offers guidelines for building custom-made models and libraries of modules, supported by some practical examples Facilitates application of a transients tool to fields hardly covered with other time-domain simulation tools Includes a companion website with data (input) files of examples presented, case studies and power point presentations used to support cases studies Written for EMTP users, electrical engineers, Transient Analysis of Power Systems is a hands-on and practical guide to advanced applications of power system transients that includes a range of practical examples.

Modeling and Simulation of HVDC Transmission

Minxiao Han, Aniruddha Gole, 2020-12-31 The development of large-scale renewable generation and load electrification call for highly efficient and flexible electric power integration, transmission and interconnection. High Voltage DC (HVDC) transmission technology has been recognized as the key technology for this scenario. HVDC transmissions, including both the line commutated converter (LCC) HVDC and voltage source converter (VSC) HVDC have played an important role in the modern electric power system. However, with the inclusion of power electronic devices, HVDC introduces the characteristics of nonlinearity and different timescales into the traditional electromechanical system and thus careful modeling

and simulation of HVDC transmission are essential for power system design, commissioning, operation and maintenance.

Computer Relaying for Power Systems Arun G. Phadke, James S. Thorp, 2009-07-20 Since publication of the first edition of Computer Relaying for Power Systems in 1988, computer relays have been widely accepted by power engineers throughout the world and in many countries they are now the protective devices of choice. The authors have updated this new edition with the latest developments in technology and applications such as adaptive relaying, wide area measurements, signal processing, new GPS-based measurement techniques and the application of artificial intelligence to digital relays. New material also includes sigma-delta and oversampling A/D converters, self-polarizing and cross-polarizing in transmission lines protection and optical current and voltage transformers. Phadke and Thorp have been working together in power systems engineering for more than 30 years. Their impressive work in the field has been recognized by numerous awards, including the prestigious 2008 Benjamin Franklin Medal in Electrical Engineering for their pioneering contributions to the development and application of microprocessor controllers in electric power systems. Provides the student with an understanding of computer relaying Authored by international authorities in computer relaying Contents include relaying practices, mathematical basis for protective relaying algorithms, transmission line relaying, protection of transformers, machines and buses, hardware organization in integrated systems, system relaying and control, and developments in new relaying principles Features numerous solved examples to explain several of the more complex topics, as well as a problem at the end of each chapter Includes an updated list of references and

a greatly expanded subject index.

Web, Artificial Intelligence and Network

Applications Leonard Barolli, Makoto Takizawa, Fatos Xhafa, Tomoya Enokido, 2019-03-14 The aim of the book is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to the emerging areas of Web Computing, Intelligent Systems and Internet Computing. As the Web has become a major source of information, techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play key roles in many of today's prominent Web applications such as e-commerce and computer security. Moreover, the outcome of Web services delivers a new platform for enabling service-oriented systems. The emergence of large scale distributed computing paradigms, such as Cloud Computing and Mobile Computing Systems, has opened many opportunities for collaboration services, which are at the core of any Information System. Artificial Intelligence (AI) is an area of computer science that build intelligent systems and algorithms that work and react like humans. The AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning. They have the potential to become enabling technologies for the future intelligent networks. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences are very important for the future development and innovation of Web and Internet applications.

Advances in Smart Grid Automation and Industry

4.0 M. Jaya Bharata Reddy, Dusmanta Kr. Mohanta, Deepak Kumar, Debomita Ghosh, 2021-04-21 This book comprises select proceedings of the International Conference on Emerging Trends for

Smart Grid Automation and Industry 4.0 (ICETSGAI4.0 2019). The contents discuss the recent trends in smart grid technology and related applications. The topics covered include data analytics for smart grid operation and control, integrated power generation technologies, green technologies as well as advances in microgrid operation and planning. The book highlights the enhancement in technology in the field of smart grids, and how IoT, big data, robotics and automation, artificial intelligence, and wide area measurement have become prerequisites for the fourth industrial revolution, also known as Industry 4.0. The book can be a valuable reference for researchers and professionals interested in smart grid automation incorporating features of Industry 4.0.

Instantaneous Power Theory and Applications to Power Conditioning Hirofumi Akagi, Edson Hirokazu Watanabe, Mauricio Aredes, 2017-02-13 This book covers instantaneous power theory as well as the importance of design of shunt, series, and combined shunt-series power active filters and hybrid passive-active power filters Illustrates pioneering applications of the p-q theory to power conditioning, which highlights distinct differences from conventional theories Explores p-q-r theory to give a new method of analyzing the different powers in a three-phase circuit Provides exercises at the end of many chapters that are unique to the second edition

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