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#### Understanding FACTS. Concepts and Technology of Flexible AC Transmission Systems

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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 opport unity to enhance coint of sibility, stability, and power transfer capability of actionsmission systems. Pionees in FACTS and leading world experts in power relectronics applications, Narain G. Hingorani and Lazzo 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 actionsmission systems. This comprehens we reference book provides in-depth discussions on:

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- 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 cus p of the power electronics revolution.

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**Xiao-Ping Zhang** 

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

<u>Understanding FACTS</u> 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 Flexible AC Transmission Systems (FACTS) Suman Bhowmick, 2018-09-03 Flexible AC Transmission Systems FACTS Newton Power Flow Modeling of Voltage Sourced Converter Based Controllers introduces different voltage sourced converter VSC based FACTS controllers and VSC based high voltage direct current VSC HVDC systems and their working principles explaining how FACTS controllers exchange real and reactive power with systems Subsequently the book Describes the Newton Raphson method and its application for solving the power flow problem Presents the Newton power flow modeling of the static synchronous series compensator SSSC unified power flow controller UPFC interline power flow controller IPFC generalized unified power flow controller GUPFC and static synchronous compensator STATCOM accommodating the practical device constraint limits because of the unique modeling strategy the existing Newton power flow codes can be reused Develops a unified Newton power flow model of AC systems incorporating multiterminal VSC HVDC systems with pulse width modulation PWM control schemes directly yielding the VSC modulation indices from the power flow solution Provides numerous case studies for validation of Newton power flow models elaborating on the occurrences and checking of unrealistic power flow solutions in isolated cases Includes detailed derivations of all the difficult formulae as well as solved problems on typical VSC based FACTS controllers Flexible AC Transmission Systems FACTS Newton Power Flow Modeling of Voltage Sourced Converter Based Controllers assumes at least an undergraduate level understanding of engineering mathematics network analysis electrical machines electrical power systems and power electronics Thus the book provides a valuable reference for practitioners as well as senior undergraduate and graduate students in electrical engineering and electrical power systems **Application of Flexible AC Transmission System Devices in Wind Energy Conversion Systems** Ahmed Abu-Siada, Farhad Shahnia, A. M. Shiddig 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

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