



Flexible AC Transmission Systems (Facts): Newton Power-Flow Modeling of Voltage-Sourced Converter Based Controllers (Hardback)

By Suman Bhowmick

Taylor Francis Inc, United States, 2016. Hardback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. 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...



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