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Nota di contenuto	Title Page; Copyright Page; Contents; Preface; Part I HVDC with Current Source Converters; Chapter 1 Introduction to Line-Commutated HVDC; 1.1 HVDC Applications; 1.2 Line-Commutated HVDC Components; 1.3 DC Cables and Overhead Lines; 1.4 LCC HVDC Topologies; 1.5 Losses in LCC HVDC Systems; 1.6 Conversion of AC Lines to DC; 1.7 Ultra-High Voltage HVDC; Chapter 2 Thyristors; 2.1 Operating Characteristics; 2.2 Switching Characteristic; 2.3 Losses in HVDC Thyristors; 2.4 Valve Structure and Thyristor Snubbers; 2.5 Thyristor Rating Selection and Overload Capability
	Chapter 3 Six-Pulse Diode and Thyristor Converter 3.1 Three-Phase Uncontrolled Bridge; 3.2 Three-Phase Thyristor Rectifier; 3.3 Analysis of Commutation Overlap in a Thyristor Converter; 3.4 Active and Reactive Power in a Three-Phase Thyristor Converter; 3.5 Inverter Inverter Operation; Chapter 4 HVDC Rectifier Station Modelling, Control and Synchronization with AC Systems; 4.1 HVDC Rectifier Controller; 4.2 Phase-Locked Loop(PLL); Chapter 5 HVDC Inverter Station Modelling and Control; 5.1 Inverter Controller; 5.2 Commutation Failure; Chapter6 HVDC System V-I Diagrams and Operating Modes 6.1 HVDC-Equivalent Circuit 6.2 HVDC V-I Operating Diagram; 6.3 HVDC Power Reversal; Chapter 7 HVDC Analytical Modelling and Stability ; 7.1 Introduction to Converter and HVDC Modelling; 7.2 HVDC Analytical Model; 7.3 CIGRE HVDC Benchmark Model; 7.4 Converter Modelling, Linearization and Gain Scheduling; 7.5 AC System Modelling for HVDC Stability Studies; 7.6 LCC Converter Transformer Model; 7.7 DC System Model; 7.8 HVDC-HVAC System Model; 7.9 Analytical Dynamic Model Verification; 7.10 Basic HVDC Dynamic Analysis; 7.11 HVDC Second Harmonic Instability; 7.12 Oscillations of 100Hz on the DC Side
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Sommario/riassunto	This comprehensive reference guides the reader through all HVDC technologies, including LCC (Line Commutated Converter), 2-level VSC and VSC HVDC based on modular multilevel converters (MMC) for an in-depth understanding of converters, system level design, operating principles and modeling. Written in a tutorial style, the book also describes the key principles of design, control, protection and operation of DC transmission grids, which will be substantially different from the practice with AC transmission grids.The first dedicated reference to the latest HVDC technologies and DC grid developm