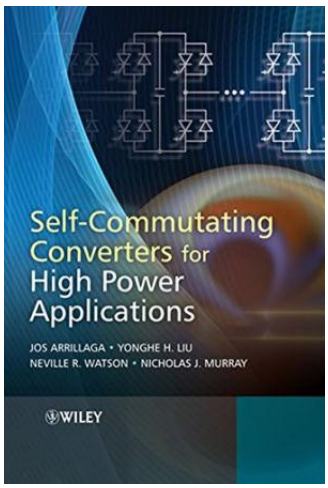

Self-Commutating Converters for High Power Applications (Hardback)

By Jos Arrillaga, Yonghe H. Liu, Neville R. Watson

John Wiley and Sons Ltd, United States, 2009. Hardback. Condition: New. Language: English . Brand New Book. For very high voltage or very high current applications, the power industry still relies on thyristor-based Line Commutated Conversion (LCC), which limits the power controllability to two quadrant operation. However, the ratings of self-commutating switches such as the Insulated-Gate Bipolar Transistor (IGBT) and Integrated Gate-Commutated Thyristor (IGCT), are reaching levels that make the technology possible for very high power applications. This unique book reviews the present state and future prospects of self-commutating static power converters for applications requiring either ultra high voltages (over 600 kV) or ultra high currents (in hundreds of kA). It is an important reference for electrical engineers working in the areas of power generation, transmission and distribution, utilities, manufacturing and consulting organizations. All topics in this area are held in this one complete volume. Within these pages, expect to find thorough coverage on: * modelling and control of converter dynamics; * multi-level Voltage Source Conversion (VSC) and Current Source Conversion (CSC); * ultra high-voltage VSC and CSC DC transmission; * low voltage high DC current AC-DC conversion; * industrial high current applications; * power conversion for high energy storage....

Reviews

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