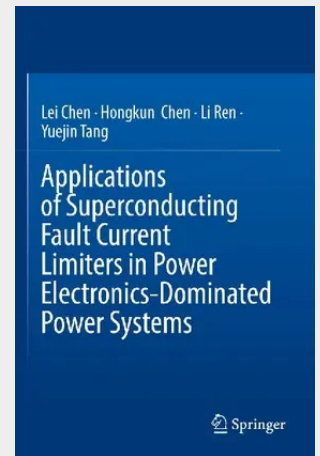


Applications of Superconducting Fault Current Limiters in Power Electronics-Dominated Power Systems

The book discusses superconducting fault current limiters and their applications in power systems, exploring the principles, simulations and engineering practices, but focusing on systematic applications in traditional and renewable power systems. It provides in-depth studies on a number of major topics such as architecture of superconducting fault current limiter, device design, parameter optimization, prototype testing, co-ordination control and performance evaluation. It also describes multiple application cases of superconducting fault current limiters, which are applied in high voltage direct current transmission systems, active distribution networks, and micro-grids. Offering a comprehensive and systematic overview of practical issues, the book is intended for readers wanting to learn practical approaches for developing superconducting fault current limiters. It also appeals to researchers, engineers and graduate students in various fields, including high-temperature superconducting materials, power system transient stability, and control science and engineering.

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