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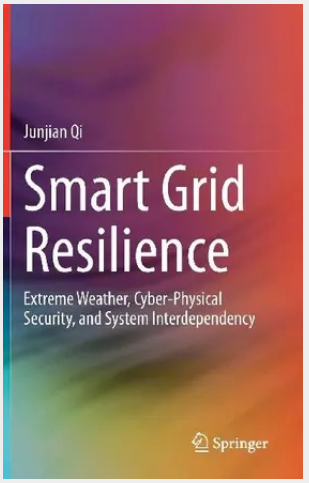
Smart Grid Resilience

Extreme Weather, Cyber-Physical Security, and System Interdependency



This book provides a comprehensive overview and in-depth discussion of smart grid resilience. It covers the three most critical resilience problems facing smart grids—resilience against extreme weather, resilience against cyber-physical attacks, and resilience under system inter-dependency. Each of these topics increases the risk of large-scale system-wide cascading failures. In-depth chapters allow the reader to define and quantify the smart grid's ability to deal with extreme events and the critical infrastructures systems that connect it. Methods for improving system design are introduced along with effective strategies for protecting the system with minimal disruption of power supply and economic and social losses in extreme conditions.

Smart Grid Resilience: Extreme Weather, Cyber-Physical Security, and System Interdependency is an essential guide for a broad audience of practicing professionals, including policymakers, electric utility engineers, and transmission and distribution system operators. It will also be a valuable reference for students and researchers.

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