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## POWER SYSTEM SELF-ORGANIZED CRITICALITY SAFETY FEATURES AND A LARGE GRID (BOOKS OF MODERN POWER SYSTEM)



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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pages Number: 0 Publisher: Tsinghua University Press Pub. Date :2009-05-01. This book introduces the theory of self-organized criticality network security analysis in large areas of application of the results. is divided into three parts. The first part (1 to 4) the principal use of probability theory and random process for large grid of self-organized criticality theory to lay a strict mathematical basis. including introduction and self-organized critical theories of mathematics and statistics related to the physical aspects of the basic concepts and theories . power-law distribution characteristics of complex systems the mathematical explanation. based on control theory and general principles of self-organized criticality mechanism model of the evolution of power systems. etc.; the second part (5 to 8) using mainly self-organized criticality of complex systems theory. a series of cascading failures and power system blackout model. including the trend of the DC-based OPA OPA and improved model. based on the trend of the big blackout exchange model. taking into account the reactive power and voltage characteristics of the blackout model and consider the large transient stability constraints blackout models. these models can reveal the full range from all levels of large scale interconnected power system dynamics and mechanism of the abnormal. the blackout risk assessment and propose appropriate preventive measures; Part III (9 ~ 10) closely engineering practice. a preliminary study of the theory of self-organized criticality in electric power supply planning and emergency management applications. including large power lines and the key node identification method. set the operating parameters of the relationship with a large network security. disaster warning and disaster prevention plan evaluation and so on. This book can serve as electrical engineering and systems science...



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