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Nota di contenuto	Introduction -- Modeling and Analysis Techniques based on Interdependent Network -- Impacts of EPON-based Communication Networks on Differential Protection of Smart Distribution Networks -- Modeling and Simulation of Data Flow for VLAN-Based Communication in Substations -- Cyber-attack on Power System -- Intelligent Distribution Network influenced by multi-layer network interaction -- Simplified Co-Simulation Model for Investigating Impacts of Cyber-Contingency -- Co-Simulation of Distributed Control System Based on JADE.
Sommario/riassunto	This book discusses recent advances in cyber-physical power systems (CPPS) in the modeling, analysis and applications of smart grid. It introduces a series of models, such as an analysis of interaction between the power grid and the communication network, differential protection in smart distribution systems, data flow for VLAN-based communication in substations, a co-simulation model for investigating the impacts of cyber-contingency and distributed control systems as

well as the analytical techniques used in different parts of cyber physical energy systems. It also discusses methods of cyber-attack on power systems, particularly false data injection. The results presented are a comprehensive summary of the authors' original research conducted over a period of 5 years. The book is of interest to university researchers, R&D engineers and graduate students in power and energy systems.