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Nota di contenuto	Modeling and Effect of Core Loss in AC Self Excited Generators in Wind Energy Applications -- Different Approaches for Efficiency Optimization of DFIG Wind Power Generation Systems -- Voltage Source Converter Control under Unbalanced Grid Voltage -- Robust Control Based on H ∞ and Linear Quadratic Gaussian of load frequency control of Power Systems Integrated with Wind Energy System -- D-STATCOM for Distribution Network Compensation linked with Wind Generation -- Wind Energy System Grid Integration and Grid Code Requirements Wind Energy System -- New Software for Matching between Wind Sites and Wind Turbines. .
Sommario/riassunto	This edited book analyses and discusses the current issues of integration of wind energy systems in the power systems. It collects recent studies in the area, focusing on numerous issues including unbalanced grid voltages, low-voltage ride-through and voltage stability of the grid. It also explores the impact of the emerging technologies of wind turbines and power converters in the integration of wind power systems in power systems. This book utilizes the editors' expertise in the energy sector to provide a comprehensive text that will be of interest to researchers, graduate students and industry professionals. .