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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Linearized Model of Power Transmission Systems with Large-Scale Wind Power Generation -- Damping Torque Analysis for Power Systems with the DFIG-Based Wind Farms -- Model Analysis of Small-Signal Angular Stability of a Power System Affected by Wind Generation -- Analysis of Power System Sub-Synchronous Oscillations Caused by Grid Connection of Wind Power Generation -- Small-Signal Stability of Power Systems Integrated with VSC HVDC Line/MTDC Network for Wind Power Transmission -- Probabilistic Small-Signal Stability of Power Systems with Wind Power Generation.
Sommario/riassunto	This book reviews and examines how power system low-frequency power oscillations and sub-synchronous oscillations may be affected by grid connection of wind power generation. Grid connection of wind power generation affects the power system small-signal stability and has been one of the most actively pursued research subjects in power systems and power electronics engineering in the last ten years. This book is the first of its kind to cover the impact of wind power generation on power system low-frequency oscillations and sub-

synchronous oscillations. It begins with a comprehensive overview of the subject and progresses to modeling of power systems and introduces the application of conventional methods, including damping torque analysis, modal analysis and frequency-domain analysis, presented with detailed examples, making it useful for researchers and engineers worldwide.
