

1. Record Nr.	UNISA990001363520203316
Autore	NEICKEL, Caspar Friedrich
Titolo	Museografia : guida per una giusta idea ed un utile allestimento dei musei / Caspar Friedrich Neickel ; cura e saggi di Marinella Pigozzi, Erika Giuliani, Antonella Huber ; traduzione e note di traduzione di Elena Giovannini
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Soggetti	Musei - Ordinamento
Collocazione	XII.3.D. 77
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2. Record Nr.	UNINA9910253987703321
Autore	Jiang John N
Titolo	Control and Operation of Grid-Connected Wind Farms : Major Issues, Contemporary Solutions, and Open Challenges / / by John N. Jiang, Choon Yik Tang, Rama G. Ramakumar
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Soggetti	Renewable energy resources Automatic control Renewable and Green Energy Control and Systems Theory
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Reconfigurable Wind Turbine Control Technology -- Voltage Regulation in Normal Operating Conditions -- Voltage Control During Contingencies -- Quick Frequency Response During Contingencies -- Coordinated Operation -- Wind-Farm Control 1 -- Wind-Farm Control 2 -- Concluding Remarks.
Sommario/riassunto	From the point of view of grid integration and operation, this monograph advances the subject of wind energy control from the individual-unit to the wind-farm level. The basic objectives and requirements for successful integration of wind energy with existing power grids are discussed, followed by an overview of the state of the art, proposed solutions and challenges yet to be resolved. At the individual-turbine level, a nonlinear controller based on feedback linearization, uncertainty estimation and gradient-based optimization is shown robustly to control both active and reactive power outputs of variable-speed turbines with doubly-fed induction generators. Heuristic coordination of the output of a wind farm, represented by a single equivalent turbine with energy storage to optimize and smooth the active power output is presented. A generic approximate model of wind turbine control developed using system identification techniques

is proposed to advance research and facilitate the treatment of control issues at the wind-farm level. A supervisory wind-farm controller is then introduced with a view to maximizing and regulating active power output under normal operating conditions and unusual contingencies. This helps to make the individual turbines cooperate in such a way that the overall output of the farm accurately tracks a reference and/or is statistically as smooth as possible to improve grid reliability. The text concludes with an overall discussion of the promise of advanced wind-farm control techniques in making wind an economic energy source and beneficial influence on grid performance. The challenges that warrant further research are succinctly enumerated. Control and Operation of Grid-Connected Wind Farms is primarily intended for researchers from a systems and control background wishing to apply their expertise to the area of wind-energy generation. At the same time, coverage of contemporary solutions to fundamental operational problems will benefit power/energy engineers endeavoring to promote wind as a reliable and clean source of electrical power. Advances in Industrial Control aims to report and encourage the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.
