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Modern wind turbines generally operate at variable speed in order to maximise the conversion efficiency below rated power and to reduce loading on the drive-train. In addition, pitch control of the blades is usually employed to limit the energy captured during operation above rated wind speed.

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Wind Turbine Control Systems: Principles, Modelling and Gain Scheduling Design - Ebook written by Fernando D. Bianchi, Hernán de Battista, Ricardo J. Mantz. Read this book using Google Play Books app on your PC, android, iOS devices. Download for offline reading, highlight, bookmark or take notes while you read Wind Turbine Control Systems: Principles, Modelling and Gain Scheduling Design.

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The control of wind energy conversion systems (WECS) must face a multitude of challenges; among them, the most important is to integrate a profoundly erratic source of energy—the wind—into electrical energy grids required to meet tough quality standards.

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This book emphasizes the application of Linear Parameter Varying (LPV) gain scheduling techniques to the control of wind energy conversion systems. This reformulation of the classical problem of gain scheduling allows straightforward design procedure and simple controller implementation. From an overview of basic wind energy conversion, to analysis of common control strategies, to design ...

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The challenge would be to make a deep-foiling boat operate easily, seamlessly and safely, regardless of who is at the wheel. Doing so would require development of an unprecedented foiling control system, and a boat structure that is not only lightweight, but designed specifically for foiling.

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Wind Turbine Control Systems | Wind | NREL

Get this from a library! Wind turbine control systems : principles, modelling and gain scheduling design. [Fernando D Bianchi; Hernán De Battista; Ricardo J Mantz] -- The authors demonstrate the contribution that the control engineering community can make to the development of wind energy conversion systems. The monograph takes a holistic view of the control of ...

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(Iulian Munteanu, International Journal of Robust and Nonlinear Control, Vol. 18, 2008) “The authors of Wind Turbine Control Systems are knowledgeable about the subject, having published several papers in this area Wind Turbine Control Systems provides a good introduction to wind energy for control engineers

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