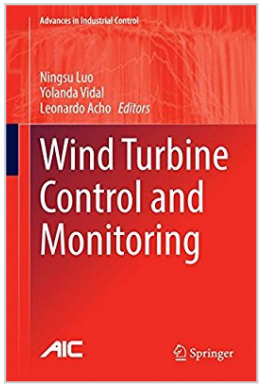

Wind Turbine Control and Monitoring (Advances in Industrial Control)

From Springer

Wind Turbine Control and Monitoring (Advances in Industrial Control)
From Springer

Maximizing reader insights into the latest technical developments and trends involving *wind turbine control and monitoring*, fault diagnosis, and wind power systems, '*Wind Turbine Control and Monitoring*' presents an accessible and straightforward introduction to wind turbines, but also includes an in-depth analysis incorporating illustrations, tables and examples on how to use wind turbine modeling and simulation software.

Featuring analysis from leading experts and researchers in the field, the book provides new understanding, methodologies and algorithms of control and monitoring, computer tools for modeling and simulation, and advances the current state-of-the-art on wind turbine monitoring and fault diagnosis; power converter systems; and cooperative & fault-tolerant control systems for maximizing the wind power generation and reducing the maintenance cost.

This book is primarily intended for researchers in the field of wind turbines, control, mechatronics and energy; postgraduates in the field of mechanical and electrical engineering; and graduate and senior undergraduate students in engineering wishing to expand their knowledge of wind energy systems. The book will also interest practicing engineers dealing with wind technology who will benefit from the comprehensive coverage of the theoretic control topics, the simplicity of the models and the use of commonly available control algorithms and monitoring techniques.

Wind Turbine Control and Monitoring (Advances in Industrial Control)

From Springer

Wind Turbine Control and Monitoring (Advances in Industrial Control) From Springer

Maximizing reader insights into the latest technical developments and trends involving *wind turbine control and monitoring*, fault diagnosis, and wind power systems, '*Wind Turbine Control and Monitoring*' presents an accessible and straightforward introduction to wind turbines, but also includes an in-depth analysis incorporating illustrations, tables and examples on how to use wind turbine modeling and simulation software.

Featuring analysis from leading experts and researchers in the field, the book provides new understanding, methodologies and algorithms of control and monitoring, computer tools for modeling and simulation, and advances the current state-of-the-art on wind turbine monitoring and fault diagnosis; power converter systems; and cooperative & fault-tolerant control systems for maximizing the wind power generation and reducing the maintenance cost.

This book is primarily intended for researchers in the field of wind turbines, control, mechatronics and energy; postgraduates in the field of mechanical and electrical engineering; and graduate and senior undergraduate students in engineering wishing to expand their knowledge of wind energy systems. The book will also interest practicing engineers dealing with wind technology who will benefit from the comprehensive coverage of the theoretic control topics, the simplicity of the models and the use of commonly available control algorithms and monitoring techniques.

Wind Turbine Control and Monitoring (Advances in Industrial Control) From Springer Bibliography

- Sales Rank: #6127766 in Books
- Published on: 2014-09-01
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.06" w x 6.14" l, .0 pounds
- Binding: Hardcover
- 466 pages

Editorial Review

From the Back Cover

Maximizing reader insights into the latest technical developments and trends involving *wind turbine control and monitoring*, fault diagnosis, and wind power systems, '*Wind Turbine Control and Monitoring*' presents an accessible and straightforward introduction to wind turbines, but also includes an in-depth analysis incorporating illustrations, tables and examples on how to use wind turbine modeling and simulation software.

Featuring analysis from leading experts and researchers in the field, the book provides new understanding, methodologies and algorithms of control and monitoring, computer tools for modeling and simulation, and advances the current state-of-the-art on wind turbine monitoring and fault diagnosis; power converter systems; and cooperative & fault-tolerant control systems for maximizing the wind power generation and reducing the maintenance cost.

This book is primarily intended for researchers in the field of wind turbines, control, mechatronics and energy; postgraduates in the field of mechanical and electrical engineering; and graduate and senior undergraduate students in engineering wishing to expand their knowledge of wind energy systems. The book will also interest practicing engineers dealing with wind technology who will benefit from the comprehensive coverage of the theoretic control topics, the simplicity of the models and the use of commonly available control algorithms and monitoring techniques.

About the Author

Ningsu Luo is Professor of Control Systems Engineering at Department of Electrical Engineering, Electronics and Automatic Control, University of Girona, Spain. He obtained his PhD in Control Engineering from Southeast University in 1990 and PhD in Physics Science from University of the Basque Country in 1994, respectively. His current research activities are focused on modeling, identification and control design for systems with complex dynamics, with application to control and monitoring of offshore floating wind turbines, mobile robotics, sustainable tillage, mechatronic systems, biomedical processes, active and semi-active control techniques for vibration mitigation in civil engineering structures and automotive suspension systems.

Yolanda Vidal was born in Baleares, Spain, in 1977. She received the B.E. degree in mathematics in 1999 and the Ph.D. degree in Applied Mathematics in 2005 from the Universitat Politècnica de Catalunya (UPC), Barcelona, Spain. Since 2002 she has been with the Department of Applied Mathematics III of the UPC where she became an associate professor in 2009. Her current research activities are focused on modeling and control design, fault detection and isolation systems with application to control and monitoring of wind turbines.

Leonardo Acho was born in the State of Mexico, Mexico, in 1967. He received the B.E. degree in electronics engineering from the Technology Institute of Monterrey (ITESM), Monterrey, Mexico, in 1989; and the M.Sc. and Ph.D. degrees in electronics and automatic control, from the Technology Institute of Monterrey (ITESM), Monterrey, Mexico, and from the Research Center of Ensenada (CICESE), México, in 1992 and 2002, respectively. Since February 2008, he has been with the Department of Applied Mathematics III of the

Polytechnic University of Catalonia (UPC), Spain, where he was a Visiting Professor, and became an associate professor in 2009. His current research interests include control theory, nonlinear systems, and chaos engineering.

Users Review

From reader reviews:

Sheri Furlong:

Inside other case, little men and women like to read book Wind Turbine Control and Monitoring (Advances in Industrial Control). You can choose the best book if you'd prefer reading a book. As long as we know about how is important the book Wind Turbine Control and Monitoring (Advances in Industrial Control). You can add expertise and of course you can around the world by the book. Absolutely right, since from book you can know everything! From your country right up until foreign or abroad you will find yourself known. About simple point until wonderful thing you could know that. In this era, we are able to open a book or searching by internet product. It is called e-book. You can use it when you feel bored to go to the library. Let's go through.

Jodi Saldana:

Book will be written, printed, or illustrated for everything. You can recognize everything you want by a publication. Book has a different type. As you may know that book is important point to bring us around the world. Adjacent to that you can your reading skill was fluently. A guide Wind Turbine Control and Monitoring (Advances in Industrial Control) will make you to end up being smarter. You can feel considerably more confidence if you can know about every thing. But some of you think which open or reading a new book make you bored. It is not necessarily make you fun. Why they may be thought like that? Have you searching for best book or ideal book with you?

Corey Johnson:

Nowadays reading books become more than want or need but also turn into a life style. This reading routine give you lot of advantages. Advantages you got of course the knowledge the actual information inside the book which improve your knowledge and information. The details you get based on what kind of guide you read, if you want attract knowledge just go with knowledge books but if you want experience happy read one together with theme for entertaining such as comic or novel. The particular Wind Turbine Control and Monitoring (Advances in Industrial Control) is kind of guide which is giving the reader unstable experience.

Jeff Jones:

Spent a free time for you to be fun activity to accomplish! A lot of people spent their sparetime with their family, or their very own friends. Usually they undertaking activity like watching television, planning to beach, or picnic in the park. They actually doing ditto every week. Do you feel it? Would you like to something different to fill your own free time/ holiday? Could be reading a book may be option to fill your free time/ holiday. The first thing you will ask may be what kinds of reserve that you should read. If you want to attempt look for book, may be the e-book untitled Wind Turbine Control and Monitoring (Advances in Industrial Control) can be very good book to read. May be it could be best activity to you.

Read Wind Turbine Control and Monitoring (Advances in Industrial Control) From Springer for online ebook

Wind Turbine Control and Monitoring (Advances in Industrial Control) From Springer Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Wind Turbine Control and Monitoring (Advances in Industrial Control) From Springer books to read online.

Online Wind Turbine Control and Monitoring (Advances in Industrial Control) From Springer ebook PDF download

Wind Turbine Control and Monitoring (Advances in Industrial Control) From Springer Doc

Wind Turbine Control and Monitoring (Advances in Industrial Control) From Springer Mobipocket

Wind Turbine Control and Monitoring (Advances in Industrial Control) From Springer EPub