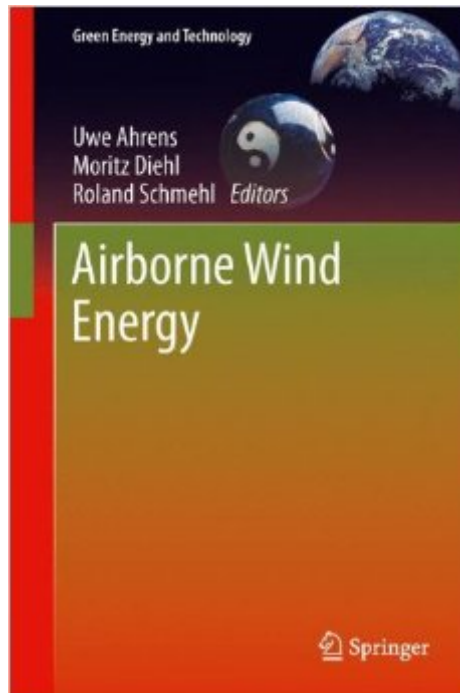


The book was found

Airborne Wind Energy (Green Energy And Technology)



Synopsis

This reference offers an overview of the field of airborne wind energy. As the first book of its kind, it provides a consistent compilation of the fundamental theories, a compendium of current research and development activities as well as economic and regulatory aspects. In five parts, the book demonstrates the relevance of Airborne Wind Energy and the role that this emerging field of technology can play for the transition towards a renewable energy economy. Part I on "Fundamentals" contains seven general chapters explaining the principles of airborne wind energy and its different variants, of meteorology, the history of kites and financing strategies. Part II on "System Modeling, Optimization and Control" contains eight contributions that develop and use detailed dynamic models for simulation, optimization, and control of airborne wind energy systems, while Part III on "Analysis of Flexible Kite Dynamics" collects four chapters that focus on the particularly challenging simulation problems related to flexible kites. Part IV "Implemented Concepts" contains eleven contributions each of which presents developed prototypes together with real-world experimental results obtained with the different concepts. Finally, in Part V on "Component Design", five papers are collected that address in detail the technical challenges for some of the components of airborne wind energy. Airborne Wind Energy presents all basics in a single source to someone starting to explore wind power in the upper atmosphere and serves as a valuable reference for researchers, scientists, professionals and students active in the innovative field of Airborne Wind Energy.

Book Information

Series: Green Energy and Technology

Hardcover: 611 pages

Publisher: Springer; 2013 edition (October 2, 2013)

Language: English

ISBN-10: 3642399649

ISBN-13: 978-3642399640

Product Dimensions: 6.1 x 1.4 x 9.2 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #974,862 in Books (See Top 100 in Books) #47 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Wind](#) #1556 in [Books > Textbooks > Engineering > Mechanical Engineering](#) #3981 in [Books >](#)

[Download to continue reading...](#)

Airborne Wind Energy (Green Energy and Technology) Introduction to Hydro Energy Systems: Basics, Technology and Operation (Green Energy and Technology) Energy from Wind: Wind Farming (Next Generation Energy) The Wind Ensemble and Its Repertoire: Essays on the Fortieth Anniversary of the Eastman Wind Ensemble, Paperback Book (Donald Hunsberger Wind Library) Renewable Energy Made Easy: Free Energy from Solar, Wind, Hydropower, and Other Alternative Energy Sources Wind Energy Basics: A Guide to Small and Micro Wind Systems LEED GA MOCK EXAMS (LEED v4): Questions, Answers, and Explanations: A Must-Have for the LEED Green Associate Exam, Green Building LEED Certification, ... Green Associate Exam Guide Series (Volume 2) LEED v4 Green Associate Exam Guide (LEED GA): Comprehensive Study Materials, Sample Questions, Green Building LEED Certification, and Sustainability (Green Associate Exam Guide Series) (Volume 1) The Homeowner's Guide to Renewable Energy: Achieving Energy Independence Through Solar, Wind, Biomass, and Hydropower Cape Wind: Money, Celebrity, Energy, Class, Politics, and the Battle for Our Energy Future The Renewable Energy Home Handbook: Insulation & energy saving, Living off-grid, Bio-mass heating, Wind turbines, Solar electric PV generation, Solar water heating, Heat pumps, & more The Great Texas Wind Rush: How George Bush, Ann Richards, and a Bunch of Tinkerers Helped the Oil and Gas State Win the Race to Wind Power (Peter T. Flawn Series in Natural Resources) Solar Wind Nine: Proceedings of the Ninth International Solar Wind Conference: Nantucket, Massachusetts, 5-9 October 1998 (AIP Conference Proceedings / Astronomy and Astrophysics) Blockchain: The Comprehensive Guide to Mastering the Hidden Economy: (Blockchain Technology, Fintech, Financial Technology, Smart Contracts, Internet Technology) The US Army's First, Last, and Only All-Black Rangers: The 2d Ranger Infantry Company (Airborne) in the Korean War, 1950-1951 Bloodborne And Airborne Pathogens Pale Horse: Hunting Terrorists and Commanding Heroes with the 101st Airborne Division Steampunk Tea Party: Cakes & Toffees to Jams & Teas - 30 Neo-Victorian Steampunk Recipes from Far-Flung Galaxies, Underwater Worlds & Airborne Excursions Band of Brothers: E Company, 506th Regiment, 101st Airborne from Normandy to Hitler's Eagle's Nest Wings of War: Airborne Warfare 1918-1945

[Dmca](#)