



Wind Energy: An Introduction

Mohamed A. El-Sharkawi

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Wind Energy: An Introduction covers wind energy system types, operation, modeling, analysis, integration, and control. Beginning with a history of the development of wind energy, this comprehensive book:

- Explains the aerodynamic theories that govern the operation of wind turbines
- Presents wind energy statistics to address the stochastic nature of wind speed
- Employs the statistical modeling of wind speed to evaluate sites for wind energy generation
- Highlights the differences between the most common types of wind turbines
- Analyzes the main power electronic circuits used in wind energy
- Details the induction, synchronous, and permanent magnet generators from the basic principle of induced voltage to the steady-state and dynamic models
- Explores the operation, stability, control, and protection of type 1, 2, 3, and 4 wind turbines
- Discusses the main integration challenges of wind energy systems with electric utility systems
- Features numerous models, illustrations, real-world examples, and exercise problems
- Includes a solutions manual and figure slides with qualifying course adoption

Wind Energy: An Introduction requires a basic knowledge of electric circuit theory, making it an ideal text for students at the senior-undergraduate and graduate levels. In addition, the book provides practicing engineers with a handy professional reference.

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