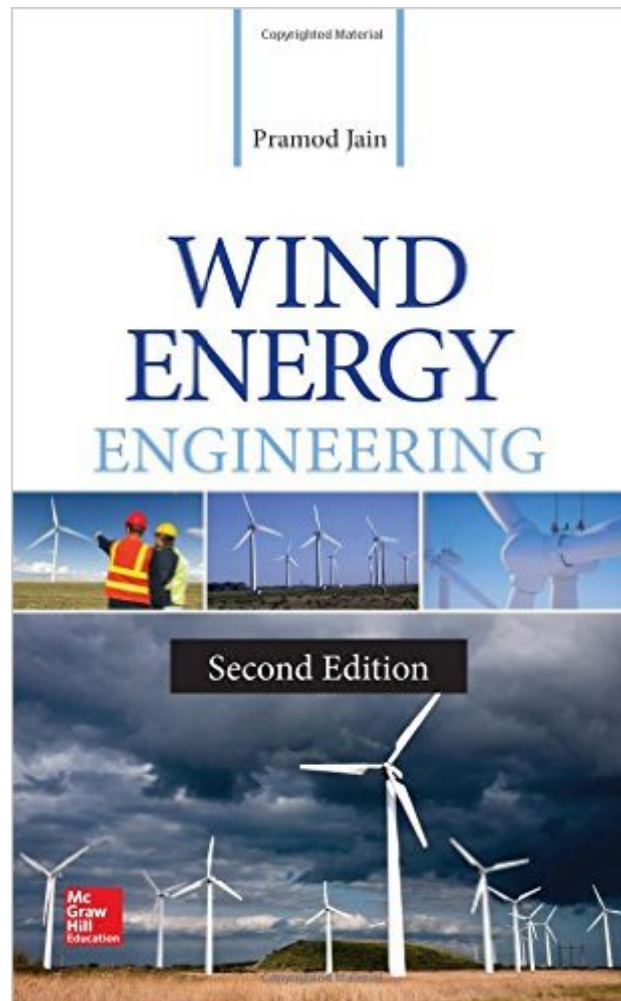


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Wind Energy Engineering, Second Edition



Synopsis

A fully up-to-date, comprehensive wind energy engineering resource—This thoroughly updated reference offers complete details on effectively harnessing wind energy as a viable and economical power source. Globally recognized wind expert Pramod Jain clearly explains physics, meteorology, aerodynamics, wind measurement, wind turbines, and electricity. New energy policies and grid integration procedures are covered, including pre-deployment studies and grid modifications. Filled with diagrams, tables, charts, graphs, and statistics, *Wind Energy Engineering, Second Edition*, is a definitive guide to current developments and emerging technologies in wind energy. *Wind Energy Engineering, Second Edition* covers:

- The worldwide business of wind energy
- Wind energy basics
- Meteorological properties of wind and air
- Wind turbine aerodynamics
- Turbine blade element models and power curves
- Wind measurement and reporting
- Wind resource assessment
- Advanced resource assessment topics, including wake, losses, and uncertainty
- Wind turbine generator components
- Electricity and generator fundamentals
- Grid integration of wind energy
- Environmental impact of wind projects
- Financial modeling, planning, and execution of wind projects
- Wind energy policy and licensing guidelines

Book Information

Hardcover: 416 pages

Publisher: McGraw-Hill Education; 2 edition (April 5, 2016)

Language: English

ISBN-10: 0071843841

ISBN-13: 978-0071843843

Product Dimensions: 6.3 x 1.1 x 9.3 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

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