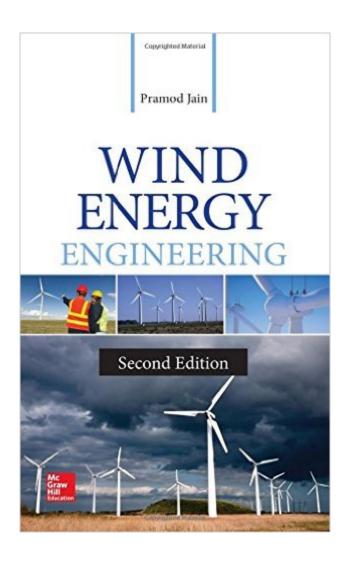
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Wind Energy Engineering, Second Edition





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 energyWind energy basics Meteorological properties of wind and air Wind turbine aerodynamicsTurbine blade element models and power curvesWind measurement and reporting Wind resource assessment Advanced resource assessment topics, including wake, losses, and uncertainty Wind turbine generator components Electricity and generator fundamentalsGrid integration of wind energy Environmental impact of wind projects Financial modeling, planning, and execution of wind projectsWind energy policy and licensing guidelines

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