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WIND ENERGY EXPLAINED THEORY, DESIGN AND APPLICATION SECOND EDITION J.F. MANWELL and J.G. MCGOWAN Department of Mechanical and Industrial Engineering, University of Massachusetts, USA A.L. ROGERS DNV-Global Energy Concepts, Washington, USA Wind energy's bestselling textbook - fully revised

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Wind energy explained: theory, design and application. James F. Manwell, Jon G. McGowan, Anthony L. Rogers. This authoritative textbook is intended to provide both a thorough and highly accessible introduction to the cross-disciplinary field of wind engineering. The economic viability and political appeal of wind power is on the increase, making this text a timely addition to the literature.

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6 Wind Energy Explained: Theory, Design and Application Maximizing the fatigue life of the rotor drive train and other structural components in the presence of changes in the wind direction, speed (including gusts), and turbulence, as well as start-stop cycles of the wind turbine.

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The law is derived from the principles of conservation of mass and momentum of the air stream flowing through an idealized "actuator disk" that extracts energy from the wind stream. According to Betz's law, no turbine can capture more than $16/27$ (59.3%) of the kinetic energy in wind. The factor $16/27$ (0.593) is known as Betz's coefficient.

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