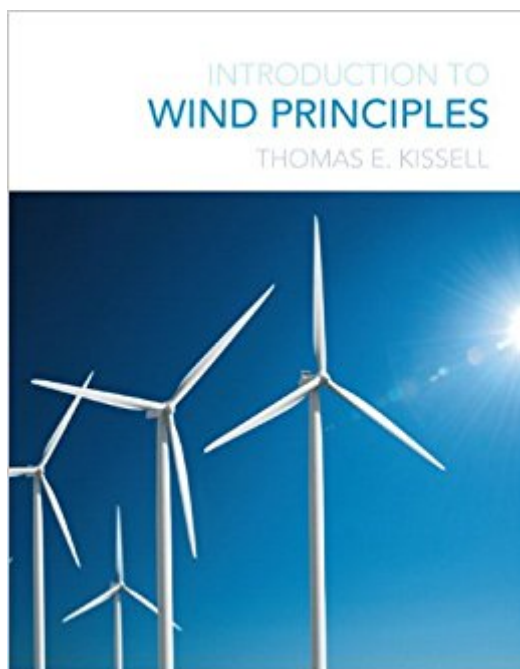


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# Introduction To Wind Principles



## Synopsis

The first book on wind energy designed specifically with technicians in mind!Â INTRODUCTION TO WIND PRINCIPLES, 1/e covers all aspects of installing and troubleshooting wind turbines, giving technicians the knowledge they need to handle even complex maintenance tasks. Writing clearly and simply, Thomas Kissell explains how wind turbine blades harvest wind energy, and how generators convert shaft turning energy into electricity. He shows how electrical and hydraulic systems control the speed of wind turbine blades, energizing blade pitch and yaw position controls. Mechanical subjects such as gears, transmissions and gearboxes are discussed in detail. Many pictures and diagrams are included, and all math and data is provided: no calculus or other mathematics is required. Some additional features include:

- Comprehensive, in-depth coverageâ including wind turbine installation and troubleshooting, towers, blades, generators, control, and much moreÂ
- History, background, trends, and demand projectionsâ
- Provides the context needed to understand the growing role of wind energy
- Coverage of all parts of vertical and horizontal wind turbinesâ including small, medium, and large wind turbines
- Essential electrical coverageâ including basic electricity theory, magnetism, motors, generators, PLC controls, and the electrical grid
- Extensive discussion of mechanical topics
- Towers, tower designs, and safety- walks through the advantages and disadvantages of each type of tower, discusses the principles of safe tower design and construction, and explains nacelle installation
- Integration of wind-generated electricity into the grid

## Book Information

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## Customer Reviews

The first book on wind energy designed specifically with technicians in mind! "INTRODUCTION TO WIND PRINCIPLES, 1/e "covers all aspects of installing and troubleshooting wind turbines, giving technicians the knowledge they need to handle even complex maintenance tasks. Writing clearly and simply, Thomas Kissell explains how wind turbine blades harvest wind energy, and how generators convert shaft turning energy into electricity. He shows how electrical and hydraulic systems control the speed of wind turbine blades, energizing blade pitch and yaw position controls. Mechanical subjects such as gears, transmissions and gearboxes are discussed in detail. Many pictures and diagrams are included, and all math and data is provided: no calculus or other mathematics is required. Some additional features include: Comprehensive, in-depth coverage-including wind turbine installation and troubleshooting, towers, blades, generators, control, and much more History, background, trends, and demand projections-Provides the context needed to understand the growing role of wind energy Coverage of all parts of vertical and horizontal wind turbines-including small, medium, and large wind turbines Essential electrical coverage-including basic electricity theory, magnetism, motors, generators, PLC controls, and the electrical grid Extensive discussion of mechanical topics Towers, tower designs, and safety- walks through the advantages and disadvantages of each type of tower, discusses the principles of safe tower design and construction, and explains nacelle installation Integration of wind-generated electricity into the grid

Repeats himself constantly. Repetition should be assigned by the instructor, not part of the regular text (save that for the review sections). I've had trigonometry texts that were more inspiring. I'm sure he thought this was just for a bunch of students & that we just had to learn the material no matter what. Boring authorship of exciting subjects is bad writing! I did get an "A" in the course, but the book made that a chore of need rather than an effort of pleasure. Maybe the 2nd edition will be better. At least the book was well bound for a paperback. Best wishes for your electrical & electronic studies.

This was a gift for a friend and he found it fascinating.

Good book

Good Book but only in Black and White...

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