



Variable Speed Generators (The Electric Generators Handbook)

Ion Boldea

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Surveying the technologies used to satisfy the world's demand for open, efficient, and clean electricity, *Variable Speed Generators* provides an in-depth examination of variable-speed generators for both stand-alone and grid-connected applications. Part of *The Electric Generators Handbook, Two-Volume Set*, this work offers authoritative, tightly focused treatment of the topologies, steady state and transients modeling, performance, control, design, and testing of stand-alone and grid-connected generators operating at variable speeds.

Variable Speed Generators thoroughly covers all types of variable-speed generators currently in progress in distributed generation and renewable energy applications around the world. It delves into the steady state, transients, control, and design of claw-pole rotor synchronous, induction, permanent magnet-assisted synchronous, and switched reluctance starter alternators for hybrid-electric vehicles. It also discusses PM synchronous, transverse-flux PM, and flux-reversal PM generators for low-speed wind and hydro energy conversion as well as linear-motion alternators for residential and spacecraft applications. Numerous design and control examples illustrate the discussion.

The promise of renewable, sustainable energy rests on our ability to design innovative power systems that are able to harness energy from a variety of sources. *Variable Speed Generators* supplies the tools necessary to design, validate, and deploy the right power generation technologies to fulfill tomorrow's complex energy needs.

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