



Synchronous Generators, Second Edition (Electric Generators Handbook)

Ion Boldea

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Synchronous Generators, the first of two volumes in the *Electric Generators Handbook*, offers a thorough introduction to electrical energy and electricity generation, including the basic principles of electric generators. The book devotes a chapter to the most representative prime mover models for transients used in active control of various generators. Then, individual chapters explore large- and medium-power synchronous generator topologies, steady state, modeling, transients, control, design, and testing. Numerous case studies, worked-out examples, sample results, and illustrations highlight the concepts.

Fully revised and updated to reflect the last decade's worth of progress in the field, this **Second Edition** adds new sections that:

- Discuss high-power wind generators with fewer or no permanent magnets (PMs)
- Cover PM-assisted DC-excited salient pole synchronous generators
- Present multiphase synchronous machine inductances via the winding function method
- Consider the control of autonomous synchronous generators
- Examine additional optimization design issues
- Illustrate the optimal design of a large wind generator by the Hooke–Jeeves method
- Detail the magnetic equivalent circuit population-based optimal design of synchronous generators
- Address online identification of synchronous generator parameters
- Explain the small-signal injection online technique
- Explore line switching (on or off) parameter identification for isolated grids
- Describe synthetic back-to-back load testing with inverter supply

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. **Synchronous Generators, Second Edition** supplies state-of-the-art tools necessary to design, validate, and deploy the right power generation technologies to fulfill tomorrow's complex energy needs.

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