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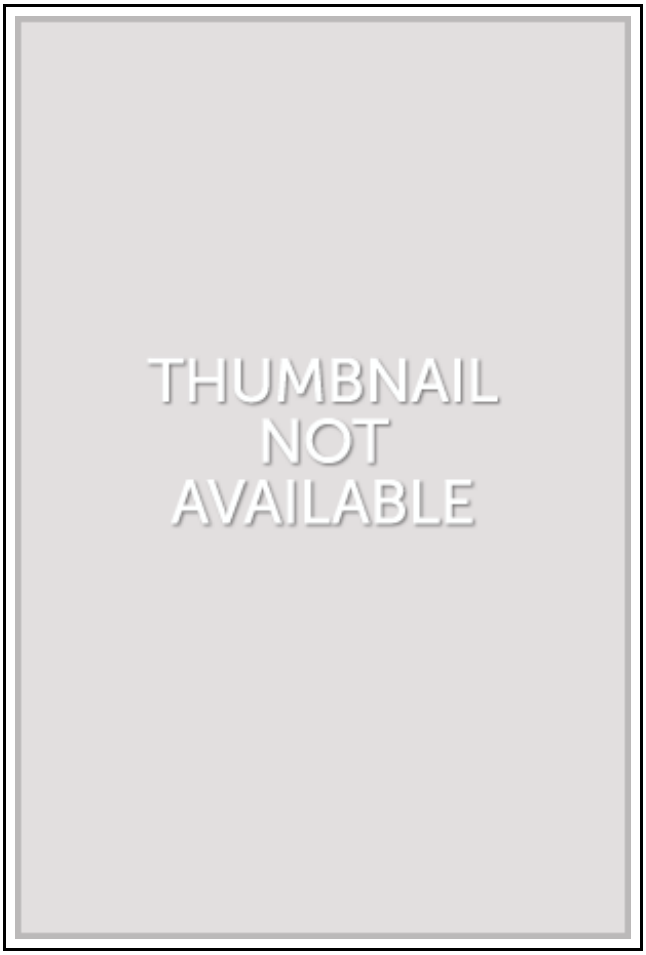

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Taylor Francis Inc, United States, 2015. Hardback. Book Condition: New. 2nd Revised edition. 254 x 178 mm. Language: English . Brand New Book. Synchronous Generators, the first of two volumes in the Electric Generators Handbook, offers a thorough introduction 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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