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Titolo	Design and application of modern synchronous generator excitation systems // Jicheng Li, Tsinghua University, China
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ISBN	1-118-84105-0 1-118-84102-6
Descrizione fisica	1 online resource (681 pages)
Disciplina	621.31/34
Soggetti	Electric machinery, Synchronous Electronic excitation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Evolution and development of excitation control -- Characteristics of synchronous generator -- Effect of excitation regulation on power system stability -- Static and transient state characteristics of excitation systems -- Control law and mathematical model of excitation system -- Basic characteristics of three-phase bridge rectifier circuit -- Excitation system for separately excited static diode rectifier -- Brushless excitation system -- Separately excited SCR excitation system -- Static self-excitation system -- Automatic excitation regulator -- Excitation transformer -- Power rectifier -- Excitation system performance characteristics of hydroelectric generating set -- Functional characteristics of excitation control and starting system of reversible pumped storage unit -- Performance characteristics of excitation system of 1,000MW turbine generator unit -- Performance characteristics of 1,000MW nuclear power steam turbine excitation system.
Sommario/riassunto	"Sales handles: -Discusses the development of excitation system control technology by a precise description with new vision and unique engineering perspective. -Focuses on the close link between basic theory and engineering applications. -Broadens the readers' horizon by integrating other related disciplines. -Describes both the functions of the components in detail and their interaction from a large system perspective. -Accompanies the development of cutting-edge

technologies. Market description: Primary: Those engaged in power plant design, debugging, operation and maintenance, as well as excitation researchers in electric power research Secondary: postgraduate students in related research areas"--
