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Titolo	Static Compensators (STATCOMs) in Power Systems // edited by Farhad Shahnia, Sumedha Rajakaruna, Arindam Ghosh
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ISBN	981-287-281-7
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (741 p.)
Collana	Power Systems, , 1612-1287
Disciplina	333.79 530.8 620 621.042
Soggetti	Power electronics Energy systems Automatic control Physical measurements Measurement Energy policy Electronic circuits Power Electronics, Electrical Machines and Networks Energy Systems Control and Systems Theory Measurement Science and Instrumentation Energy Policy, Economics and Management Circuits and Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Converter and Output Filter Topologies for STATCOMs -- Multilevel Converter Topologies for STATCOMs -- Analysis and Implementation of an 84-pulse STATCOM -- Mathematical Modeling and Control Algorithms of STATCOMs -- STATCOM Control Strategies -- Robust Nonlinear Control of STATCOMs -- Versatile Control of STATCOMs using Multiple Reference Frames -- Control of Multilevel STATCOMs --

Adaptive Observer for Capacitor Voltages in Multilevel STATCOMs --
Modeling and Control of STATCOMs -- Study of STATCOM in abc
Framework -- Modeling of STATCOM in Load Flow Formulation.

Sommario/riassunto

A static compensator (STATCOM), also known as static synchronous compensator, is a member of the flexible alternating current transmission system (FACTS) devices. It is a power-electronics based regulating device which is composed of a voltage source converter (VSC) and is shunt-connected to alternating current electricity transmission and distribution networks. The voltage source is created from a DC capacitor and the STATCOM can exchange reactive power with the network. It can also supply some active power to the network, if a DC source of power is connected across the capacitor. A STATCOM is usually installed in the electric networks with poor power factor or poor voltage regulation to improve these problems. In addition, it is used to improve the voltage stability of a network. This book covers STATCOMs from different aspects. Different converter topologies, output filters and modulation techniques utilized within STATCOMs are reviewed. Mathematical modeling of STATCOM is presented in detail and different STATCOM control strategies and algorithms are discussed. Modified load flow calculations for a power system in the presence of STATCOMs are presented. Several applications of STATCOMs in transmission and distribution networks are discussed in different examples and optimization techniques for defining the optimal location and ratings of the STATCOMs in power systems are reviewed. Finally, the performance of the network protection scheme in the presence of STATCOMs is described. This book will be an excellent resource for postgraduate students and researchers interested in grasping the knowledge on STATCOMs.

2. Record Nr.	UNINA9910895841103321
Titolo	Financial statistics of Japan
Pubbl/distr/stampa	Tokyo, : Research and Planning Division, Minister's Secretariat, Ministry of Finance, 1983- Tokyo, : Institute of Fiscal and Monetary Policy, Ministry of Finance Tokyo, : Information Systems Dept., Policy Research Institute, Ministry of Finance, Japan
ISSN	0447-4740
Descrizione fisica	1 online resource
Disciplina	332/.0952
Soggetti	Finance - Japan Annales Statistiques financières Economic history Finance Periodicals. Statistics. Japan Economic conditions 1945- Statistics Periodicals Japon Japan
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico