

1. Record Nr.	UNINA9910454409703321
Autore	Padiyar K. R
Titolo	FACTS controllers in power transmission and distribution [[electronic resource] /] / K.R. Padiyar
Pubbl/distr/stampa	New Delhi, : New Age International (P) Ltd., Publishers, c2007
ISBN	1-282-07399-0 9786612073991 81-224-2541-0
Descrizione fisica	1 online resource (549 p.)
Disciplina	621.31912
Soggetti	Flexible AC transmission systems Electric power transmission - Alternating current Electric power distribution - Alternating current Electronic books.
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 and index.
Nota di contenuto	Cover; Preface; Contents; Chapter 1: Introduction; Chapter 2: AC Transmission Line and Reactive Power Compensation; Chapter 3: Static Var Compensator; Chapter 4: Thyristor and GTO Controlled Series Capacitor; Chapter 5: Static Phase Shifting Transformer; Chapter 6: Static Synchronous Compensator (STATCOM); Chapter 7: Static Synchronous Series Compensator; Chapter 8: Unified Power Flow Controller and other Multi-Converter Devices; Chapter 9: Interphase Power Controller and other FACTS Devices; Chapter 10: Power Oscillation Damping; Chapter 11: Improvement of Transient Stability Chapter 12: Power Quality and Introduction to Custom Power Devices Chapter 13: Load Compensation and Distribution STATCOM; Chapter 14: Dynamic Voltage Restorer and Unified Power Quality Conditioner; Appendix A: Modelling of Synchronous Generator; Appendix B: Pulse Width Modulation for Voltage Source Converters; Appendix C: Per Unit System for STATCOM; Appendix D: Abbreviations; Index
Sommario/riassunto	About the Book: The emerging technology of Flexible AC Transmission System (FACTS) enables planning and operation of power systems at minimum costs, without compromising security. This is based on

modern high power electronic systems that provide fast controllability to ensure 'flexible' operation under changing system conditions. This book presents a comprehensive treatment of the subject by discussing the operating principles, mathematical models, control design and issues that affect the applications. The concepts are explained often with illustrative examples and case studies. In particular
