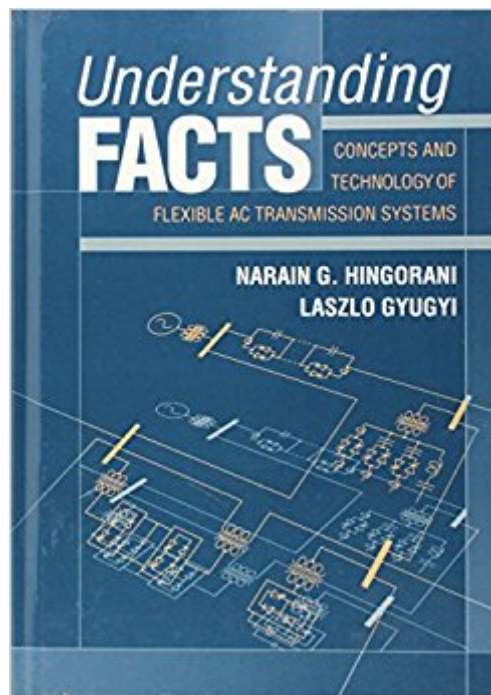




Ebook Directory
the best source of ebook

The book was found

Understanding FACTS: Concepts And Technology Of Flexible AC Transmission Systems



Synopsis

"The Flexible AC Transmission System (FACTS) -- a new technology based on power electronics -- offers an opportunity to enhance controllability, stability, and power transfer capability of AC transmission systems. Pioneers in FACTS and leading world experts in power electronics applications Narain G. Hingorani and Laszlo Gyugyi have teamed together to bring you the definitive book on FACTS technology. Hingorani and Gyugyi present a practical approach to FACTS that will enable electrical engineers working in the power industry to understand the principles underlying this advanced system. UNDERSTANDING FACTS will also enhance expertise in equipment specifications and engineering design, offering an informed view of the future of power electronics in AC transmission systems. This comprehensive reference book provides an in-depth look at: * Power semiconductor devices * Voltage-sourced and current-sourced converters * Specific FACTS controllers including SVC, STATCOM, TCSC, SSSC, UPFC, IPFC plus voltage regulators, phase shifters, and special controllers with a detailed comparison of their performance attributes * Major FACTS applications used in the United States. UNDERSTANDING FACTS is an authoritative resource that is essential reading for electrical engineers who want to stay on the cusp of the power electronics revolution." Sponsored by: IEEE Power Engineering Society.

Book Information

Hardcover: 429 pages

Publisher: Wiley-IEEE Press; 1 edition (December 24, 1999)

Language: English

ISBN-10: 0780334558

ISBN-13: 978-0780334557

Product Dimensions: 7.2 x 1.1 x 10.2 inches

Shipping Weight: 2.1 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #858,216 in Books (See Top 100 in Books) #188 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Electric #1444 in Books > Textbooks > Engineering > Mechanical Engineering #2625 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors

Customer Reviews

Electrical Engineering Understanding FACTS Concepts and Technology of Flexible AC Transmission Systems The Flexible AC Transmission System (FACTS) ; a new technology

based on power electronics; offers an opportunity to enhance controllability, stability, and power transfer capability of ac transmission systems. Pioneers in FACTS and leading world experts in power electronics applications, Narain G. Hingorani and Laszlo Gyugyi, have teamed together to bring you the definitive book on FACTS technology. Drs. Hingorani and Gyugyi present a practical approach to FACTS that will enable electrical engineers working in the power industry to understand the principles underlying this advanced system. Understanding FACTS will enhance your expertise in equipment specifications and engineering design, and will offer you an informed view of the future of power electronics in ac transmission systems. This comprehensive reference book provides in-depth discussions on: Power semiconductor devices Voltage-sourced and current-sourced converters Specific FACTS Controllers, including SVC, STATCOM, TCSC, SSSC, UPFC, IPFC plus voltage regulators, phase shifters, and special Controllers with a detailed comparison of their performance attributes Major FACTS applications in the U.S. Understanding FACTS is an authoritative resource that is essential reading for electrical engineers who want to stay on the cusp of the power electronics revolution.

About the Authors... Narain G. Hingorani is credited with originating the concepts of FACTS and Custom Power. He is a retired vice president of Electrical Systems at EPRI and provides consulting services that help utilities plan and purchase power electronics technology. Dr. Hingorani has published widely on HVDC and ac transmission and is coauthor of High Voltage Direct Current Power Transmission (Garaway Ltd., 1960). Dr. Hingorani is the recipient of the 1985 Uno Lamm Medal of the IEEE Power Engineering Society for outstanding contributions to High Voltage Direct Current Technology and the 1995 IEEE Lamme Medal for leadership and pioneering contributions to the transmission and distribution of electric power. He is a Fellow of the IEEE and in 1988 he was elected to the National Academy of Engineering. Laszlo Gyugyi is technical director at Siemens FACTS & Power Quality Division in Orlando, Florida. His research covers a broad range of power electronic circuits and systems. In collaboration with B. R. Pelly, Dr. Gyugyi established the theoretical foundations of ac to ac switching converters in Static Power Frequency Changers (John Wiley & Sons, 1976). Subsequently, he has focused on the development of new power electronic technologies for electric transmission and distribution systems, and has pioneered the converter-based approach for FACTS. Dr. Gyugyi has published more than 50 papers in the field and holds 76 U.S. patents. He is the recipient of the 1992 Westinghouse Order of Merit, the 1994 William E. Newell Power Electronics Award of the IEEE Power Electronics Society, and the first Flexible AC Transmission System (FACTS) Award given by the IEEE Power Engineering Society in

1999. He is a Fellow of the IEE.

A good general overview of the role of FACTS devices and their capabilities. This book is sure to become a classic reference book as the technology develops over the next few years, primarily because it is authored by the original developer of FACTS devices - Dr Hingorani. The technical content is accessible to both undergraduates and practicing engineers.

[Download to continue reading...](#)

Understanding FACTS: Concepts and Technology of Flexible AC Transmission Systems
Blockchain: Step By Step Guide To Understanding The Blockchain Revolution And The Technology Behind It (Information Technology, Blockchain For Beginners,Bitcoin, Blockchain Technology)
Flexible Ridesharing: New Opportunities and Service Concepts for Sustainable Mobility The
Science and Technology of Flexible Packaging: Multilayer Films from Resin and Process to End Use (Plastics Design Library) Understanding ICD-9-CM Coding: A Worktext (Flexible Solutions - Your Key to Success) A First Course in Information Theory (Information Technology: Transmission, Processing and Storage) Chirelstein's Federal Income Taxation: A Law Student's Guide to the Leading Cases and Concepts (Concepts and Insights) (Concepts and Insights Series) 101 Facts...
Stan Lee: 101 Facts About Stan Lee You Probably Never Knew (facts 101 Book 7) Game Of Thrones:101 Facts You Didn't Know About Game Of Thrones,The Complete Unofficial Guide! (game of thrones book 6 release date, 101 facts, TV, Movie, ... Adaptations,Trivia & Fun Facts, Trivia) Fintech: Simple and Easy Guide to Financial Technology(Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, ... technology,equity crowdfunding) (Volume 1) FINTECH: Simple and Easy Guide to Financial Technology(Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, Financial services technology,equity crowdfunding) Introduction to Hydro Energy Systems: Basics, Technology and Operation (Green Energy and Technology) AQA GCSE Design and Technology: Systems and Control Technology Blockchain: The Complete Step-by-Step Guide to Understanding Blockchain and the Technology behind it (blockchain, bitcoin, cryptocurrency, fintech, financial technology, data freedom, beginners) Fundamentals Of Information Systems Security (Information Systems Security & Assurance) - Standalone book (Jones & Bartlett Learning Information Systems Security & Assurance) Forever Fit and Flexible: Feeling Fabulous at Fifty and Beyond Calisthenics: Bodyweight Training Guide; Get Strong, Fit, and Flexible in Only 15 Minutes per Day with Bodyweight Training, Bodyweight Exercises, and Calisthenics Flexible Dieting and IIFYM Cookbook (If It Fits Your Macros): 31 High Protein Recipes to Help You Lose Fat and Build Muscle Taylor's Guide to Annuals: How to Select

and Grow more than 400 Annuals, Biennials, and Tender Perennials- Flexible Binding (Taylor's Guides) Taylor's Guide to Perennials: More Than 600 Flowering and Foliage Plants, Including Ferns and Ornamental Grasses - Flexible Binding (Taylor's Guides)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)