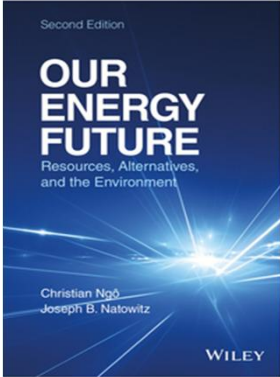
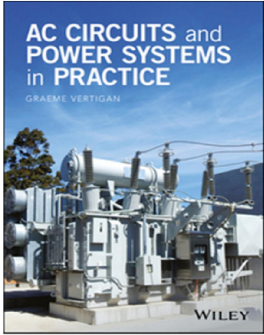
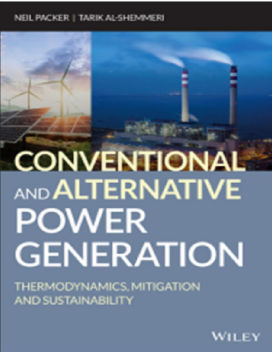


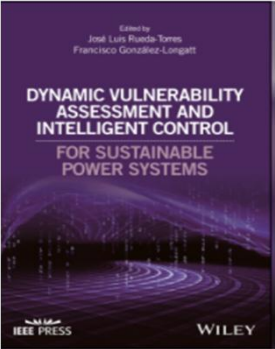
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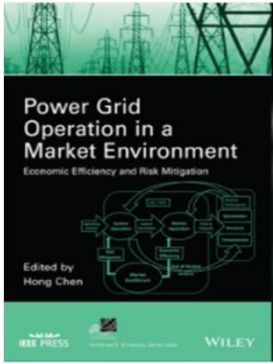
PUBLISHER: WILEY

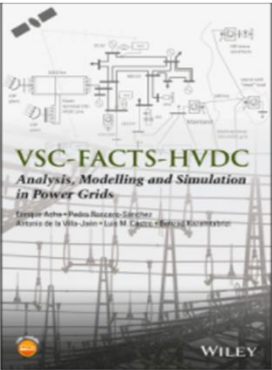
No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
1	Our Energy Future: Resources, Alternatives and the Environment, 2nd Edition 	Ngo	Wiley	2016	2nd ed.	528 hlm.	9781119213390	9781119213369, 1119213363	<p>Presents an overview on the different aspects of the energy value chain and discusses the issues that future energy is facing - This book covers energy and the energy policy choices which face society. The book presents easy-to-grasp information and analysis, and includes statistical data for energy production, consumption and simple formulas. Among the aspects considered are: science, technology, economics and the impact on health and the environment. In this new edition two new chapters have been added: The first new chapter deals with unconventional fossil fuels, a resource which has become very important from the economical point of view, especially in the United States. The second new chapter presents the applications of nanotechnology in the energy domain. Provides a global vision of available and potential energy sources</p> <p>Discusses advantages and drawbacks to help prepare current and future generations to use energy differently</p> <p>Includes new chapters covering unconventional fossil fuels and nanotechnology as new energy</p> <p><i>Our Energy Future: Resources, Alternatives and the Environment</i>, Second Edition, is written for professionals, students, teachers, decision-makers and politicians involved in the energy domain and interested in environmental issues.</p>	https://bookshelf.vitalsource.com/#/books/9781119213390

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
2	AC Circuits and Power Systems in Practice 	Vertigan	Wiley	2016	1st ed.	xviii, 577 hlm.: ilus.	9781118924617	9781118924594, 1118924592	<p>The essential guide that combines power system fundamentals with the practical aspects of equipment design and operation in modern power systems - Written by an experienced power engineer, AC Circuits and Power Systems in Practice offers a comprehensive guide that reviews power system fundamentals and network theorems while exploring the practical aspects of equipment design and application. The author covers a wide-range of topics including basic circuit theorems, phasor diagrams, per-unit quantities and symmetrical component theory, as well as active and reactive power and their effects on network stability, voltage support and voltage collapse. Magnetic circuits, reactor and transformer design are analyzed, as is the operation of step voltage regulators. In addition, detailed introductions are provided to earthing systems in LV and MV networks, the adverse effects of harmonics on power equipment and power system protection. Finally, European and American engineering standards are presented where appropriate throughout the text, to familiarize the reader with their use and application.</p> <p>This book is written as a practical power engineering text for engineering students and recent graduates. It contains more than 400 illustrations and is designed to provide the reader with a broad introduction to the subject and to facilitate further study. Many of the examples included come from industry and are not normally covered in undergraduate syllabi. They are provided to assist in bridging the gap between tertiary study and industrial practice, and to assist the professional development of recent graduates. The material presented is easy to follow and includes both mathematical and visual representations using phasor diagrams. Problems included at the end of most chapters are designed to walk the reader through practical applications of the associated theory.</p>	https://bookshelf.vitalsource.com/#/books/9781118924617
3	Conventional and Alternative Power Generation: Thermodynamics, Mitigation and Sustainability 	Packer	Wiley	2018	1st ed.	xx, 270 hlm.	9781119479406	9781119479352, 1119479355	<p>A much-needed, up-to-date guide on conventional and alternative power generation - This book goes beyond the traditional methods of power generation. It introduces the many recent innovations on the production of electricity and the way they play a major role in combating global warming and improving the efficiency of generation. It contains a strong analytical approach to underpin the theory of power plants--for those using conventional fuels, as well as those using renewable fuels--and looks at the problems from a unique environmental engineering perspective. The book also includes numerous worked examples and case studies to demonstrate the working principles of these systems. Conventional and Alternative Power Generation: Thermodynamics, Mitigation and Sustainability is divided into 8 chapters that comprehensively cover: thermodynamic systems; vapor power cycles, gas power cycles, combustion; control of particulates; carbon capture and storage; air pollution dispersal; and renewable energy and power plants. Features an abundance of worked examples and tutorials</p> <p>Examines the problems of generating power from an environmental engineering perspective</p> <p>Includes all of the latest information, technology, theories, and principles on power generation</p> <p><i>Conventional and Alternative Power Generation: Thermodynamics, Mitigation and Sustainability is an ideal text for courses on mechanical, chemical, and electrical engineering.</i></p>	https://bookshelf.vitalsource.com/#/books/9781119479406

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
4	Dynamic Vulnerability Assessment and Intelligent Control: For Sustainable Power Systems 	Rueda Torres	Wiley	2018	–	XXIV, 424 hlm. : ilus. ; 25 cm.	9781119214960	9781119214953 1119214955 9781119214977 1119214971 9781119214960 1119214963	Identifying, Assessing, And Mitigating Electric Power Grid Vulnerabilities Is A Growing Focus In Short-Term Operational Planning Of Power Systems. Through Illustrated Application, This Important Guide Surveys State-Of-The-Art Methodologies For The Assessment And Enhancement Of Power System Security In Short Term Operational Planning And Real-Time Operation. The Methodologies Employ Advanced Methods From Probabilistic Theory, Data Mining, Artificial Intelligence, And Optimization, To Provide Knowledge-Based Support For Monitoring, Control (Preventive And Corrective), And Decision Making Tasks. Key Features: Introduces Behavioural Recognition In Wide-Area Monitoring And Security Constrained Optimal Power Flow For Intelligent Control And Protection And Optimal Grid Management. Provides In-Depth Understanding Of Risk-Based Reliability And Security Assessment, Dynamic Vulnerability Assessment Methods, Supported By The Underpinning Mathematics. Develops Expertise In Mitigation Techniques Using Intelligent Protection And Control, Controlled Islanding, Model Predictive Control, Multi-Agent And Distributed Control Systems Illustrates Implementation In Smart Grid And Self-Healing Applications With Examples And Real-World Experience From The WAMPAC (Wide Area Monitoring Protection And Control) Scheme. Dynamic Vulnerability Assessment And Intelligent Control For Power Systems Is A Valuable Reference For Postgraduate Students And Researchers In Power System Stability As Well As Practicing Engineers Working In Power System Dynamics, Control, And Network Operation And Planning.	https://bookshelf.vitalsource.com/#/books/9781119214960

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
5	Electric Distribution Systems, 2nd Edition	Sallam	Wiley	2019	2nd ed.	_	9781119509325	9781119509318, 1119509319	<p>A comprehensive review of the theory and practice for designing, operating, and optimizing electric distribution systems, revised and updated - Now in its second edition, Electric Distribution Systems has been revised and updated and continues to provide a two-tiered approach for designing, installing, and managing effective and efficient electric distribution systems. With an emphasis on both the practical and theoretical approaches, the text is a guide to the underlying theory and concepts and provides a resource for applying that knowledge to problem solving. The authors--noted experts in the field--explain the analytical tools and techniques essential for designing and operating electric distribution systems. In addition, the authors reinforce the theories and practical information presented with real-world examples as well as hundreds of clear illustrations and photos. This essential resource contains the information needed to design electric distribution systems that meet the requirements of specific loads, cities, and zones. The authors also show how to recognize and quickly respond to problems that may occur during system operations, as well as revealing how to improve the performance of electric distribution systems with effective system automation and monitoring. This updated edition:</p> <ul style="list-style-type: none"> • Contains new information about recent developments in the field particularly in regard to renewable energy generation • Clarifies the perspective of various aspects relating to protection schemes and accompanying equipment • Includes illustrative descriptions of a variety of distributed energy sources and their integration with distribution systems • Explains the intermittent nature of renewable energy sources, various types of energy storage systems and the role they play to improve power quality, stability, and reliability <p>Written for engineers in electric utilities, regulators, and consultants working with electric distribution systems planning and projects, the second edition of Electric Distribution Systems offers an updated text to both the theoretical underpinnings and practical applications of electrical distribution systems.</p>	https://bookshelf.vitalsource.com/#/books/9781119509325
6	Microgrid Dynamics and Control	Bevrani	Wiley	2017	_	720 hlm.	9781119263708	_	<p>This Book Discusses Relevant Microgrid Technologies In The Context Of Integrating Renewable Energy And Also Addresses Challenging Issues. The Authors Summarize Long Term Academic And Research Outcomes And Contributions. In Addition, This Book Is Influenced By The Authors' Practical Experiences On Microgrids (MGs), Electric Network Monitoring, And Control And Power Electronic Systems. A Thorough Discussion Of The Basic Principles Of The MG Modeling And Operating Issues Is Provided. The MG Structure, Types, Operating Modes, Modelling, Dynamics, And Control Levels Are Covered. Recent Advances In DC Microgrids, Virtual Synchronousgenerators, MG Planning And Energy Management Are Examined. The Physical Constraints And Engineering Aspects Of The MGs Are Covered, And Developed Robust And Intelligent Control Strategies Are Discussed Using Real Time Simulations And Experimental Studies.</p>	https://bookshelf.vitalsource.com/#/books/9781119263708

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
7	Power Grid Operation in a Market Environment: Economic Efficiency and Risk Mitigation 	Chen	Wiley	2017	–	–	9781119082927	–	<p>Covers The Latest Practices, Challenges And Theoretical Advancements In The Domain Of Balancing Economic Efficiency And Operation Risk Mitigation This Book Examines Both System Operation And Market Operation Perspectives, Focusing On The Interaction Between The Two. It Incorporates Up-To-Date Field Experiences, Presents Challenges, And Summarizes The Latest Theoretic Advancements To Address Those Challenges. The Book Is Divided Into Four Parts. The First Part Deals With The Fundamentals Of Integrated System And Market Operations, Including Market Power Mitigation, Market Efficiency Evaluation, And The Implications Of Operation Practices In Energy Markets. The Second Part Discusses Developing Technologies To Strengthen The Use Of The Grid In Energy Markets. System Volatility And Economic Impact Introduced By The Intermittency Of Wind And Solar Generation Are Also Addressed. The Third Part Focuses On Stochastic Applications, Exploring New Approaches Of Handling Uncertainty In Security Constrained Unit Commitment (SCUC) As Well As The Reserves Needed For Power System Operation. The Fourth Part Provides Ongoing Efforts Of Utilizing Transmission Facilities To Improve Market Efficiency, Via Transmission Topology Control, Transmission Switching, Transmission Outage Scheduling, And Advanced Transmission Technologies. Besides The State-Of-The-Art Review And Discussion On The Domain Of Balancing Economic Efficiency And Operation Risk Mitigation, This Book: Describes A New Approach For Mass Market Demand Response Management, And Introduces New Criteria To Improve System Performance With Large Scale Variable Generation Additions Reviews Mathematic Models And Solution Methods Of SCUC To Help Address Challenges Posed By Increased Operational Uncertainties With High-Penetration Of Renewable Resources Presents A Planning Framework To Account For The Value Of Operational Flexibility In Transmission Planning And To Provide Market Mechanism For Risk Sharing Power Grid Operations In A Market Environment: Economic Efficiency And Risk Mitigation Is A Timely Reference For Power Engineers And Researchers, Electricity Market Traders And Analysts, And Market Designers.</p>	https://bookshelf.vitalsource.com/#/books/9781119082927

No.	Judul	Pengarang	Penerbit	Tahun	Edisi	Kolasi	e-ISBN	p-ISBN	Anotasi	Link
10	VSC-FACTS-HVDC: Analysis, Modelling and Simulation in Power Grids 	Acha	Wiley	2019	—	XXIII, 389 hlm. : Ilus., diagram	9781118965849	9781119973980 1119973988	<p>An Authoritative Reference On The New Generation Of VSC-FACTS And VSC-HVDC Systems And Their Applicability Within Current And Future Power Systems VSC-FACTS-HVDC And PMU: Analysis, Modelling And Simulation In Power Grids Provides Comprehensive Coverage Of VSC-FACTS And VSC-HVDC Systems Within The Context Of High-Voltage Smart Grids Modelling And Simulation. Readers Are Presented With An Examination Of The Advanced Computer Modelling Of The VSC-FACTS And VSC-HVDC Systems For Steady-State, Optimal Solutions, State Estimation And Transient Stability Analyses, Including Numerous Case Studies For The Reader To Gain Hands-On Experience In The Use Of Models And Concepts. Key Features: Wide-Ranging Treatment Of The VSC Achieved By Assessing Basic Operating Principles, Topology Structures, Control Algorithms And Utility-Level Applications. Detailed Advanced Models Of VSC-FACTS And VSC-HVDC Equipment, Suitable For A Wide Range Of Power Network-Wide Studies, Such As Power Flows, Optimal Power Flows, State Estimation And Dynamic Simulations. Contains Numerous Case Studies And Practical Examples, Including Cases Of Multi-Terminal VSC-HVDC Systems. Includes A Companion Website Featuring MATLAB Software And Power System Computer Aided Design (PSCAD) Scripts Which Are Provided To Enable The Reader To Gain Hands-On Experience. Detailed Coverage Of Electromagnetic Transient Studies Of VSC-FACTS And VSC-HVDC Systems Using The De-Facto Industry Standard PSCAD™/EMTDC™ Simulation Package. An Essential Guide For Utility Engineers, Academics, And Research Students As Well As Industry Managers, Engineers In Equipment Design And Manufacturing, And Consultants.</p>	https://bookshelf.vitalsource.com/#/books/9781118965849