ELECTRIC POWER SYSTEMS

Advanced Forecasting Techniques and Optimal Generation Scheduling









Edited by João P. S. Catalão



Ajay Kumar Vyas,S.
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Electric Power Systems João P. S. Catalão, 2012-03-07 Electric Power Systems Advanced Forecasting Techniques and Optimal Generation Scheduling helps readers develop their skills in modeling simulating and optimizing electric power systems Carefully balancing theory and practice it presents novel cutting edge developments in forecasting and scheduling The focus is on understanding and solving pivotal problems in the management of electric power generation systems Methods for Coping with Uncertainty and Risk in Electric Power Generation Outlining real world problems the book begins with an overview of electric power generation systems. Since the ability to cope with uncertainty and risk is crucial for power generating companies the second part of the book examines the latest methods and models for self scheduling load forecasting short term electricity price forecasting and wind power forecasting Toward Optimal Coordination between Hydro Thermal and Wind Power Using case studies the third part of the book investigates how to achieve the most favorable use of available energy sources Chapters in this section discuss price based scheduling for generating companies optimal scheduling of a hydro producer hydro thermal coordination unit commitment with wind generators and optimal optimization of multigeneration systems Written in a pedagogical style that will appeal to graduate students the book also expands on research results that are useful for engineers and researchers It presents the latest techniques in increasingly important areas of power system operations and planning Electric Power Systems João P. S. Catalão, 2017-12-19 Electric Power Systems Advanced Forecasting Techniques and Optimal Generation Scheduling helps readers develop their skills in modeling simulating and optimizing electric power systems Carefully balancing theory and practice it presents novel cutting edge developments in forecasting and scheduling The focus is on understanding and solving pivotal problems in the management of electric power generation systems Methods for Coping with Uncertainty and Risk in Electric Power Generation Outlining real world problems the book begins with an overview of electric power generation systems Since the ability to cope with uncertainty and risk is crucial for power generating companies the second part of the book examines the latest methods and models for self scheduling load forecasting short term electricity price forecasting and wind power forecasting Toward Optimal Coordination between Hydro Thermal and Wind Power Using case studies the third part of the book investigates how to achieve the most favorable use of available energy sources Chapters in this section discuss price based scheduling for generating companies optimal scheduling of a hydro producer hydro thermal coordination unit commitment with wind generators and optimal optimization of multigeneration systems Written in a pedagogical style that will appeal to graduate students the book also expands on research results that are useful for engineers and researchers It presents the latest techniques in increasingly important areas of power system operations and planning Applications of Modern Heuristic Optimization Methods in Power and Energy Systems Kwang Y. Lee, Zita A. Vale, 2020-04-14 Reviews state of the art technologies in modern heuristic optimization techniques and presents case studies showing how they have been applied in

complex power and energy systems problems Written by a team of international experts this book describes the use of metaheuristic applications in the analysis and design of electric power systems. This includes a discussion of optimum energy and commitment of generation nonrenewable renewable and load resources during day to day operations and control activities in regulated and competitive market structures along with transmission and distribution systems Applications of Modern Heuristic Optimization Methods in Power and Energy Systems begins with an introduction and overview of applications in power and energy systems before moving on to planning and operation control and distribution Further chapters cover the integration of renewable energy and the smart grid and electricity markets. The book finishes with final conclusions drawn by the editors Applications of Modern Heuristic Optimization Methods in Power and Energy Systems Explains the application of differential evolution in electric power systems active power multi objective optimal dispatch Includes studies of optimization and stability in load frequency control in modern power systems Describes optimal compliance of reactive power requirements in near shore wind power plants Features contributions from noted experts in the field Ideal for power and energy systems designers planners operators and consultants Applications of Modern Heuristic Optimization Methods in Power and Energy Systems will also benefit engineers software developers researchers academics and students Smart and Sustainable Power Systems Ioão P. S. Catalão, 2017-12-19 The smart grid initiative integrating advanced sensing technologies intelligent control methods and bi directional communications into the contemporary electricity grid offers excellent opportunities for energy efficiency improvements and better integration of distributed generation coexisting with centralized generation units within an active network A large share of the installed capacity for recent renewable energy sources already comprises insular electricity grids since the latter are preferable due to their high potential for renewables However the increasing share of renewables in the power generation mix of insular power systems presents a significant challenge to efficient management of the insular distribution networks mainly due to the variability and uncertainty of renewable generation More than other electricity grids insular electricity grids require the incorporation of sustainable resources and the maximization of the integration of local resources as well as specific solutions to cope with the inherent characteristics of renewable generation Insular power systems need a new generation of methodologies and tools to face the new paradigm of large scale renewable integration Smart and Sustainable Power Systems Operations Planning and Economics of Insular Electricity Grids discusses the modeling simulation and optimization of insular power systems to address the effects of large scale integration of renewables and demand side management This practical book Describes insular power systems renewable energies uncertainty variability reserves and demand response Examines state of the art forecasting techniques power flow calculations and scheduling models Covers probabilistic and stochastic approaches scenario generation and short term operation Includes comprehensive testing and validation of the mathematical models using real world data Explores electric price signals competitive operation of distribution networks and network expansion

planning Smart and Sustainable Power Systems Operations Planning and Economics of Insular Electricity Grids provides a valuable resource for the design of efficient methodologies tools and solutions for the development of a truly sustainable and Advances in Electric Power and Energy Systems Mohamed E. El-Hawary, 2017-07-12 A comprehensive review of state of the art approaches to power systems forecasting from the most respected names in the field internationally Advances in Electric Power and Energy Systems is the first book devoted exclusively to a subject of increasing urgency to power systems planning and operations Written for practicing engineers researchers and post grads concerned with power systems planning and forecasting this book brings together contributions from many of the world's foremost names in the field who address a range of critical issues from forecasting power system load to power system pricing to post storm service restoration times river flow forecasting and more In a time of ever increasing energy demands mounting concerns over the environmental impacts of power generation and the emergence of new smart grid technologies electricity price forecasting has assumed a prominent role within both the academic and industrial arenas Short run forecasting of electricity prices has become necessary for power generation unit schedule since it is the basis of every maximization strategy. This book fills a gap in the literature on this increasingly important topic Following an introductory chapter offering background information necessary for a full understanding of the forecasting issues covered this book Introduces advanced methods of time series forecasting as well as neural networks Provides in depth coverage of state of the art power system load forecasting and electricity price forecasting Addresses river flow forecasting based on autonomous neural network models Deals with price forecasting in a competitive market Includes estimation of post storm restoration times for electric power distribution systems Features contributions from world renowned experts sharing their insights and expertise in a series of self contained chapters Advances in Electric Power and Energy Systems is a valuable resource for practicing engineers regulators planners and consultants working in or concerned with the electric power industry. It is also a must read for senior undergraduates graduate students and researchers involved in power system planning and operation Short-Term Load Forecasting 2019 Antonio Gabaldón, María Carmen Ruiz-Abellón, Luis Alfredo Fernández-Jiménez, 2021-02-26 Short term load forecasting STLF plays a key role in the formulation of economic reliable and secure operating strategies planning scheduling maintenance and control processes among others for a power system and will be significant in the future However there is still much to do in these research areas The deployment of enabling technologies e g smart meters has made high granularity data available for many customer segments and to approach many issues for instance to make forecasting tasks feasible at several demand aggregation levels The first challenge is the improvement of STLF models and their performance at new aggregation levels Moreover the mix of renewables in the power system and the necessity to include more flexibility through demand response initiatives have introduced greater uncertainties which means new challenges for STLF in a more dynamic power system in the 2030 50 horizon Many techniques have been proposed and applied for STLF including traditional statistical models and

AI techniques Besides distribution planning needs as well as grid modernization have initiated the development of hierarchical load forecasting Analogously the need to face new sources of uncertainty in the power system is giving more importance to probabilistic load forecasting This Special Issue deals with both fundamental research and practical application research on STLF methodologies to face the challenges of a more distributed and customer centered power Artificial Intelligence for Renewable Energy Systems Ajay Kumar Vyas, S. Balamurugan, Kamal Kant Hiran.Harsh S. Dhiman.2022-01-28 ARTIFICIAL INTELLIGENCE FOR RENEWABLE ENERGY SYSTEMS Renewable energy systems including solar wind biodiesel hybrid energy and other relevant types have numerous advantages compared to their conventional counterparts This book presents the application of machine learning and deep learning techniques for renewable energy system modeling forecasting and optimization for efficient system design Due to the importance of renewable energy in today s world this book was designed to enhance the reader s knowledge based on current developments in the field For instance the extraction and selection of machine learning algorithms for renewable energy systems forecasting of wind and solar radiation are featured in the book Also highlighted are intelligent data renewable energy informatics systems based on supervisory control and data acquisition SCADA and intelligent condition monitoring of solar and wind energy systems Moreover an AI based system for real time decision making for renewable energy systems is presented and also demonstrated is the prediction of energy consumption in green buildings using machine learning The chapter authors also provide both experimental and real datasets with great potential in the renewable energy sector which apply machine learning ML and deep learning DL algorithms that will be helpful for economic and environmental forecasting of the renewable energy business Audience The primary target audience includes research scholars industry engineers and graduate students working in renewable energy electrical engineering machine learning information communication technology Solar Irradiance and Photovoltaic Power Forecasting Dazhi Yang, Jan Kleissl, 2024-02-05 Forecasting plays an indispensable role in grid integration of solar energy which is an important pathway toward the grand goal of achieving planetary carbon neutrality This rather specialized field of solar forecasting constitutes both irradiance and photovoltaic power forecasting Its dependence on atmospheric sciences and implications for power system operations and planning make the multi disciplinary nature of solar forecasting immediately obvious Advances in solar forecasting represent a quiet revolution as the landscape of solar forecasting research and practice has dramatically advanced as compared to just a decade ago Solar Irradiance and Photovoltaic Power Forecasting provides the reader with a holistic view of all major aspects of solar forecasting the philosophy statistical preliminaries data and software base forecasting methods post processing techniques forecast verification tools irradiance to power conversion sequences and the hierarchical and firm forecasting framework The book s scope and subject matter are designed to help anyone entering the field or wishing to stay current in understanding solar forecasting theory and applications. The text provides concrete and honest advice

methodological details and algorithms and broader perspectives for solar forecasting Both authors are internationally recognized experts in the field with notable accomplishments in both academia and industry Each author has many years of experience serving as editors of top journals in solar energy meteorology. The authors as forecasters are concerned not merely with delivering the technical specifics through this book but more so with the hopes of steering future solar forecasting research in a direction that can truly expand the boundary of forecasting science Intelligent Computing and Optimization Pandian Vasant, Mohammad Shamsul Arefin, Vladimir Panchenko, J. Joshua Thomas, Elias Munapo, Gerhard-Wilhelm Weber, Roman Rodriguez-Aguilar, 2023-12-18 This book of Springer Nature is another proof of Springer's outstanding greatness on the lively interface of Holistic Computational Optimization Green IoTs Smart Modeling and Deep Learning It is a masterpiece of what our community of academics and experts can provide when an interconnected approach of joint mutual and meta learning is supported by advanced operational research and experience of the World Leader Springer Nature The 6th edition of International Conference on Intelligent Computing and Optimization took place at G Hua Hin Resort Mall on April 27 28 2023 with tremendous support from the global research scholars across the planet Objective is to celebrate Research Novelty with Compassion and Wisdom with researchers scholars experts and investigators in Intelligent Computing and Optimization across the globe to share knowledge experience and innovation a marvelous opportunity for discourse and mutuality by novel research invention and creativity This proceedings book of the 6th ICO 2023 is published by Springer Nature Quality Label of Enlightenment **Smart Energy Grid Engineering Hossam** Gabbar, 2016-10-12 Smart Energy Grid Engineering provides in depth detail on the various important engineering challenges of smart energy grid design and operation by focusing on advanced methods and practices for designing different components and their integration within the grid Governments around the world are investing heavily in smart energy grids to ensure optimum energy use and supply enable better planning for outage responses and recovery and facilitate the integration of heterogeneous technologies such as renewable energy systems electrical vehicle networks and smart homes around the grid By looking at case studies and best practices that illustrate how to implement smart energy grid infrastructures and analyze the technical details involved in tackling emerging challenges this valuable reference considers the important engineering aspects of design and implementation energy generation utilization and energy conservation intelligent control and monitoring data analysis security and asset integrity Includes detailed support to integrate systems for smart grid infrastructures Features global case studies outlining design components and their integration within the grid Provides examples and best practices from industry that will assist in the migration to smart grids Intelligent Data Mining and Analysis in Power and Energy Systems Zita A. Vale, Tiago Pinto, Michael Negnevitsky, Ganesh Kumar Venayagamoorthy, 2022-12-02 Intelligent Data Mining and Analysis in Power and Energy Systems A hands on and current review of data mining and analysis and their applications to power and energy systems In Intelligent Data Mining and

Analysis in Power and Energy Systems Models and Applications for Smarter Efficient Power Systems the editors assemble a team of distinguished engineers to deliver a practical and incisive review of cutting edge information on data mining and intelligent data analysis models as they relate to power and energy systems You ll find accessible descriptions of state of the art advances in intelligent data mining and analysis and see how they drive innovation and evolution in the development of new technologies. The book combines perspectives from authors distributed around the world with expertise gained in academia and industry It facilitates review work and identification of critical points in the research and offers insightful commentary on likely future developments in the field It also provides A thorough introduction to data mining and analysis including the foundations of data preparation and a review of various analysis models and methods In depth explorations of clustering classification and forecasting Intensive discussions of machine learning applications in power and energy systems Perfect for power and energy systems designers planners operators and consultants Intelligent Data Mining and Analysis in Power and Energy Systems will also earn a place in the libraries of software developers researchers and students with an interest in data mining and analysis problems Electric Vehicle Design Krishan Arora, Suman Lata Tripathi, Himanshu Sharma, 2024-05-14 ELECTRIC VEHICLE DESIGN This book will serve as a definitive guide to conceptual and practical knowledge about the design of hybrid electrical vehicles HEV battery electrical vehicles BEV fuel cell electrical vehicles FCEV plug in hybrid electrical vehicles PHEV and efficient EV charging techniques with advanced tools and methodologies for students engineers and academics alike This book deals with novel concepts related to fundamentals design and applications of conventional automobiles with internal combustion engines ICEs electric vehicles EVs hybrid electric vehicles HEVs and fuel cell vehicles FCVs It broadly covers vehicle performance configuration control strategy design methodology modeling and simulation for different conventional and hybrid vehicles based on mathematical equations Fundamental and practical examples of conventional electrical machines advanced electrical machines battery energy sources on board charging and off board charging techniques and optimization methods are presented here This book can be useful for students researchers and practitioners interested in different problems and challenges associated with electric vehicles Furthermore in explaining the design methodology of each drive train design examples are presented with simulation results

<u>Electric Distribution Systems</u> Abdelhay A. Sallam,Om P. Malik,2018-10-16 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

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parts The first part describes the CSC HVDC and VSC HVDC technologies the second part presents the FACTS devices and the third part refers to the artificial intelligence techniques All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements Discusses detailed operating principles and diagrams theory of modeling control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems from planning and monitoring to operation and control Each chapter is carefully edited with drawings and illustrations that helps the reader to easily understand the principles of operation or application Advanced Solutions in Power Systems HVDC FACTS and Artificial Intelligence is written for graduate students researchers in transmission and distribution networks and power system operation This book also serves as a reference for professional software developers and practicing engineers

Hosting Capacity Aspects in Distribution Networks Towards Sustainable Energy Systems Hossam H. H. Mousa, Karar Mahmoud, Matti Lehtonen, 2025-04-29 Hosting Capacity Aspects in Distribution Networks Towards Sustainable Energy Systems is a comprehensive guidebook that delves into the critical aspects of power systems It emphasizes the essential developments necessary to support the transition towards sustainable energy sources The book begins by laying down the fundamental principles of hosting capacity in energy systems highlighting modern challenges in the shift to renewable and distributed energy sources It underscores the pivotal role hosting capacity plays in the planning and operation of successful systems offering readers a solid foundation on which to build their understanding Subsequent chapters are dedicated to providing detailed explanations on various practical hosting capacity calculation methods and enhancement techniques The book also introduces available tools and software solutions to address hosting capacity issues By compiling the latest insights and advancements in this crucial yet under explored area this book serves as an invaluable resource for students researchers and engineers It aids in planning hosting capacity aspects for the successful integration of renewable and sustainable energy systems Outlines the fundamental concepts of hosting capacity and its relation to sustainable energy systems Provides a range of accurate flexible options of tools software calculations and enhancement techniques Supports readers in mastering the latest theoretical and practical developments

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