

Branch No.	From bus	To bus	R (Ω)	X (Ω)	Load at to bus	
					P (kW)	Q (kW)
1	1	2	0.0922	0.0477	0	0
2	2	3	0.4930	0.2511	100	60
3	3	4	0.3660	0.1864	90	40
4	4	5	0.3811	0.1941	120	80
5	5	6	0.8190	0.7070	60	30
6	6	7	0.1872	0.6188	60	20
7	7	8	1.7114	1.2351	200	100
8	8	9	1.0300	0.7400	200	100
9	9	10	1.0400	0.7400	60	20
10	10	11	0.1966	0.0650	60	20
11	11	12	0.3744	0.1238	45	30
12	12	13	1.4680	1.1550	60	35
13	13	14	0.5416	0.7129	60	35
14	14	15	0.5910	0.5260	120	80
15	15	16	0.7463	0.5450	60	10
16	16	17	1.2890	1.7210	60	20
17	17	18	0.7320	0.5740	60	20
18	2	19	0.1640	0.1565	90	40
19	19	20	1.5042	1.3554	90	40
20	20	21	0.4095	0.4784	90	40
21	21	22	0.7089	0.9373	90	40
22	3	23	0.4512	0.3083	90	40
23	23	24	0.8980	0.7091	90	50
24	24	25	0.8960	0.7011	420	200
25	6	26	0.2030	0.1034	420	200
26	26	27	0.2842	0.1447	60	25
27	27	28	1.0590	0.9337	60	25
28	28	29	0.8042	0.7006	60	20
29	29	30	0.5075	0.2585	120	70
30	30	31	0.9744	0.9630	200	600
31	31	32	0.3105	0.3619	150	70
32	32	33	0.3410	0.5302	210	100

*R: resistance *X: reactance

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**Ahmed S. Abbas, Adel Ali Mohamed
Abou El-Ela, Ragab A. El-Sehiemy, Adel
A. Elbaset**

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Green Machine Learning and Big Data for Smart Grids V. Indragandhi,R. Elakkiya,V.

Subramaniaswamy,2024-11-15 Green Machine Learning and Big Data for Smart Grids Practices and Applications is a guidebook to the best practices and potential for green data analytics when generating innovative solutions to renewable energy integration in the power grid This book begins with a solid foundation in the concept of green machine learning and the essential technologies for utilizing data analytics in smart grids A variety of scenarios are examined closely demonstrating the opportunities for supporting renewable energy integration using machine learning from forecasting and stability prediction to smart metering and disturbance tests Uses for control of physical components including inverters and converters are examined along with policy implications Importantly real world case studies and chapter objectives are combined to signpost essential information and to support understanding and implementation Packages core concepts of green machine learning and smart grids in a clear understandable way Includes real world practical applications and case studies for replication and innovative solution development Introduces readers with a range of expertise to best practices and the latest technological advances *Optimization of Power System Problems* Mahmoud Pesaran Hajiabbas,Behnam

Mohammadi-Ivatloo,2020-01-06 This book presents integrated optimization methods and algorithms for power system problems along with their codes in MATLAB Providing a reliable and secure power and energy system is one of the main challenges of the new era Due to the nonlinear multi objective nature of these problems the traditional methods are not suitable approaches for solving large scale power system operation dilemmas The integration of optimization algorithms into power systems has been discussed in several textbooks but this is the first to include the integration methods and the developed codes As such it is a useful resource for undergraduate and graduate students researchers and engineers trying to solve power and energy optimization problems using modern technical and intelligent systems based on theory and application case studies It is expected that readers have a basic mathematical background *High-Performance Automation*

Methods for Computational Intelligent Systems Vijay Kumar Sharma,Sachin Kumar Gupta,2025-08-29 Computational methods are necessary for the proper execution of the applications for the benefit of society and technological development Technological development makes life easier by constructing powerful systems with the help of computational methods The nature of computational methods changes from time to time and retains only efficient applicable theories Researchers take the idea of existing computational systems and advance them as per possible future needs Efficient computational methods solve complex problems and also help to make the system more intelligent Automation process requires decision making computational systems A more intelligent system contains an efficient computational method which is described by powerful algorithm development The aim of this book is to identify the technological development for future computational systems which ultimately reflects the more intelligent system Automation has become the need of the hour in today s world and hence

the computational systems need to be upgraded to that level to perform the required tasks The most efficient computational algorithm acts like a human being and offers a full sense of intelligent automation This book Presents the latest research trends for the upcoming computational intelligent systems in a comprehensive manner Focuses on the integration of multi purpose and multi dimension natural language into intelligent systems Elaborates on nature inspired and intelligent behaviour based computational methods to deal with the observation of nature Illustrates applications of quantum cellular energy efficient computing methods for automation and applications of genetic algorithms in multidisciplinary fields Discusses aspects of intelligent automation like technology based architecture based logic implementation based and the different algorithms based concepts It is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering computer science and engineering and information technology *Applied Computational Intelligence and Soft Computing in Engineering* Khalid, Saifullah, 2017-09-13 Although computational intelligence and soft computing are both well known fields using computational intelligence and soft computing in conjunction is an emerging concept This combination can effectively be used in practical areas of various fields of research Applied Computational Intelligence and Soft Computing in Engineering is an essential reference work featuring the latest scholarly research on the concepts paradigms and algorithms of computational intelligence and its constituent methodologies such as evolutionary computation neural networks and fuzzy logic Including coverage on a broad range of topics and perspectives such as cloud computing sampling in optimization and swarm intelligence this publication is ideally designed for engineers academicians technology developers researchers and students seeking current research on the benefits of applying computational intelligence techniques to engineering and technology

Metaheuristic Computation: A Performance Perspective Erik Cuevas, Primitivo Diaz, Octavio Camarena, 2020-10-05 This book is primarily intended for undergraduate and postgraduate students of Science Electrical Engineering or Computational Mathematics Metaheuristic search methods are so numerous and varied in terms of design and potential applications however for such an abundant family of optimization techniques there seems to be a question which needs to be answered Which part of the design in a metaheuristic algorithm contributes more to its better performance Several works that compare the performance among metaheuristic approaches have been reported in the literature Nevertheless they suffer from one of the following limitations A Their conclusions are based on the performance of popular evolutionary approaches over a set of synthetic functions with exact solutions and well known behaviors without considering the application context or including recent developments B Their conclusions consider only the comparison of their final results which cannot evaluate the nature of a good or bad balance between exploration and exploitation The objective of this book is to compare the performance of various metaheuristic techniques when they are faced with complex optimization problems extracted from different engineering domains The material has been compiled from a teaching perspective Power Quality

Enhancement using Artificial Intelligence Techniques Ahmed S. Abbas, Adel Ali Mohamed Abou El-Ela, Ragab A. El-Sehiemy, Adel A. Elbaset, 2023-03-14 This text discusses sensitivity parametric analysis for the single tuned filter parameters and presents an optimization based method for solving the allocation problem of the distributed generation units and capacitor banks in distribution systems It also highlights the importance of artificial intelligence techniques such as water cycle algorithms in solving power quality problems such as over voltage and harmonic distortion Features Presents a sensitivity parametric analysis for the single tuned filter parameters Discusses optimization based methods for solving the allocation problem of the distributed generation units and capacitor banks in distribution systems Highlights the importance of artificial intelligence techniques water cycle algorithm for solving power quality problems such as over voltage and harmonic distortion Showcases a procedure for harmonic mitigation in active distribution systems using the single tuned harmonic filters Helps in learning how to determine the optimal planning of the single tuned filters to mitigate the harmonic distortion in distorted systems It will serve as an ideal reference text for graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering Power systems planning and analysis

Hierarchical Power Systems: Optimal Operation Using Grid Flexibilities Tim Aschenbruck, Jörg Dickert, Willem Esterhuizen, Bartosz Filipecki, Sara Grundel, Christoph Helmberg, Tobias K. S. Ritschel, Philipp Sauerteig, Stefan Streif, Andreas Wasserrab, Karl Worthmann, 2023-03-18 This book explains the power grid as a hierarchy made up of the transmission distribution and microgrid levels Interfaces among these levels are explored to show how flexibility in power demand associated with residential batteries can be communicated through the entire grid to facilitate optimal power flow computations within the transmission grid To realize this approach the authors combine semi definite optimal power flow with model order reduction at the distribution level and with a new heuristic algorithm for stable power flow at the transmission level To demonstrate its use a numerical case study based on modified IEEE 9 bus and 33 bus systems for the transmission and distribution grid respectively is included This book shows how exploiting the flexibility on the residential level improves the performance of the power flow with the transmission grid

Enhancing Resilience in Power Distribution Systems Fangxing Fran Li, Qingxin Shi, Jin Zhao, 2025-07-01 Enhancing Resilience in Power Distribution Systems presents practical guidance for readers on the challenges and potential solutions for resilience in modern power systems The book begins by explaining the risks and problems for resilience presented by renewable based power systems It goes on to clarify the current state of research and propose several novel methodologies and technologies for analysis and improvement of power system resilience These methods include deep learning linear programming and generative adversarial networks Packed with practical steps and tools for implementing the latest technologies this book provides researchers and industry professionals with guidance on the resilient systems of the future Breaks down novel methodologies and tools from deep learning to generative adversarial networks Supports readers in implementing practical steps towards resilient renewable

energy Presents practical guidance for readers on the challenges and potential solutions for resilience in modern power systems *Proceedings of the 7th International Conference on Electrical, Control and Computer Engineering-Volume 1* Zainah Md. Zain,Norizam Sulaiman,Mahfuzah Mustafa,Mohammed Nazmus Shakib,Waheb A. Jabbar,2024-10-02 This book presents the proceedings of the 7th International Conference on Electrical Control and Computer Engineering InECCE 2023 held in Kuala Lumpur Malaysia on 22 August 2023 The topics covered are sustainable energy power electronics and drives and power engineering including distributed renewable generation power system optimization artificial computational intelligence smart grid power system protection and machine learning energy management and conservation The book showcases some of the latest technologies and applications developed to solve local energy and power problems in order to ensure continuity reliability and security of electricity for future generations It also links topics covered the Sustainable Development Goals SDGs areas outlined by the United Nation for global sustainability The book appeals to professionals scientists and researchers with experience in industry The book represents Volume 1 for this conference proceedings which consist of a 2 volume book series **Advancements in Electric Vehicle Infrastructure: From Development to Optimization** Kirti Pal,Tripti Kunj,2024-11-07 In Advancements in Electric Vehicle Infrastructure From Development to Optimization readers embark on an enlightening journey through the ever evolving landscape of electric mobility This comprehensive guide delves into the historical evolution of electric vehicle technology providing invaluable insights into the unique challenges and opportunities in transitioning to electric mobility From optimal location and management of EV charging stations to a comparative analysis of charger types and their impact on distribution networks this book offers a detailed exploration of EV infrastructure optimization With a keen focus on prospects readers gain a deep understanding of policy considerations consumer trends global market dynamics and emerging technologies shaping the future of electric mobility Whether you re a researcher policymaker industry professional or student Advancements in Electric Vehicle Infrastructure is your indispensable companion for navigating the complexities of electric transportation and driving positive change towards a sustainable future *Energy 4.0* Gulshan Sharma,Pitshou N. Bokoro,Sudeep Tanwar,2025-06-02 The text provides insight into renewable technologies and their challenges in terms of design efficiency implementation and solutions to mitigate the problem of energy crisis It will help the readers to understand the role of the fourth industrial revolution technologies in developing user friendly economic and implementable solutions to mitigate the present and future energy crisis through cleaner and renewable technologies Discusses electric energy transportation systems electricity distribution systems demand response metering smart grids and cyber security Covers electric vehicles vehicle to grid technologies charging while driving technology for future roads and highways and autonomous mobile robots Presents data driven modeling forecasting and optimization techniques of power and energy systems Illustrates energy storage technologies energy efficient systems power conversion topologies and related control techniques Explains the design of control

algorithms for solar systems and the design of efficient energy management for solar power The text is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering energy environmental engineering computer science and engineering

Applications of Fuzzy Logic in Planning and Operation of Smart Grids Mehdi Rahmani-Andebili, 2021-05-24 Fuzzy logic has vast applications in power and electrical engineering This collection is the first book to cover research advancements in the application of fuzzy logic in the planning and operation of smart grids A global group of researchers and scholars present innovative approaches to fuzzy based smart grid planning and operation cover theoretical concepts and experimental results of the application of fuzzy based techniques and define and apply these techniques to deal with smart grid issues Applications of Fuzzy Logic in Planning and Operation of Smart Grids is an ideal resource for researchers on the theory and application of fuzzy logic practicing engineers working in electrical power engineering and power system planning and post graduates and students in advanced graduate level courses

Renewable Resources and Energy Management Satyajit Chakrabarti, Arun Kumar Bar, Swati Chowdhuri, Debashis Jana, Nirban Chakraborty, Sanjoy Mondal, 2023-05-25 International Conference on Energy Management Renewable Resources has been a premium forum for presenting recent advances in renewable based energy systems smart applications of power electronic devices in modern grid systems and AI based control over energy management areas IEMRE2022 has been an excellent platform to collaborate and showcase high end research giving exposure to interact with the eminent Professors Technocrats Scientists Administrators and Students throughout the world by the latest innovations in the field of Renewable Energy and Energy Management with their applications in worldwide energy sectors IEMRE 2022 was organized by Department of EEE EE of Institute of Engineering Management Kolkata India for three days in online mode with invited lectures by outstanding speakers from all over the world on emerging areas in the field of renewable energy This book is a collection of select papers from the conference

Recent Advances in Power Systems Om Hari Gupta, Vijay Kumar Sood, Om P. Malik, 2022-02-14 This book contains selected proceedings of EPREC 2021 with a focus on power systems The book includes original research and case studies that present recent developments in power systems principally renewable energy conversion systems distributed generations microgrids smart grid HVDC FACTS power quality power system protection etc The book will be a valuable reference guide for beginners researchers and professionals interested in advancements in power systems

Power Systems Operation with 100% Renewable Energy Sources Sanjeevikumar Padmanaban, Sharmeela Chenniappan, Sivaraman Palanisamy, 2023-10-24 Power Systems Operation with 100% Renewable Energy Sources combines fundamental concepts of renewable energy integration into power systems with real world case studies to bridge the gap between theory and implementation The book examines the challenges and solutions for renewable energy integration into the transmission and distribution grids and also provides information on design analysis and operation Starting with an introduction to renewable energy sources and bulk power systems including

policies and frameworks for grid upgradation the book then provides forecasting modeling and analysis techniques for renewable energy sources Subsequent chapters discuss grid code requirements and compliance before presenting a detailed break down of solar and wind integration into power systems Other topics such as voltage control and optimization power quality enhancement and stability control are also considered Filled with case studies applications and techniques Power Systems Operation with 100% Renewable Energy Sources is a valuable read to researchers students and engineers working towards more sustainable power systems Explains Volt Var control and optimization for both transmission grid and distribution Discusses renewable energy integration into the weak grid system along with its challenges examples and case studies Offers simulation examples of renewable energy integration studies that readers will perform using advanced simulation tools Presents recent trends like energy storage systems and demand responses for improving stability and reliability

Advances in Condition Monitoring, Optimization and Control for Complex Industrial Processes Zhiwei Gao, Michael Z. Q. Chen, Dapeng Zhang, 2021-09-01 The book documents 25 papers collected from the Special Issue Advances in Condition Monitoring Optimization and Control for Complex Industrial Processes highlighting recent research trends in complex industrial processes The book aims to stimulate the research field and be of benefit to readers from both academic institutes and industrial sectors

Flexibility in Electric Power Distribution Networks Hassan Haes Alhelou, Ehsan Heydarian-Forushani, Pierluigi Siano, 2021-07-15 High penetration of renewable energy sources RESs imposes several technological challenges to distribution system operators DSOs due to their variability in power generation and hence increases the need for additional operational flexibility Operational flexibility aims at securely covering the possible variations at the minimum cost using emerging flexible alternatives or designing novel local market mechanisms to incentivize flexibility providers In such a situation the DSOs can use the potential of flexible options such as energy storages ESs demand response DR plug in electric vehicles PEVs or on site fast run generators However each of the mentioned flexible resources has its own specific characteristics and requirements that should be taken into account and this raises the complexity Optimal network reconfiguration schemes are the other solution for increasing power system flexibility at the distribution level There is a great research gap related to renewable based distribution network planning from a flexibility point of view Therefore this book aims to discuss the additional flexibility needs introduced by RESs and describe general approaches to analyze the need for and provision of additional flexibility in future distribution networks at both the planning and operational time frames This book successfully suggests new solutions and techniques to increase the flexibility in distribution systems It also highlights the needs for moving towards smart distribution grids in order to enhance the flexibility in modern and future power systems

Smart Metering Vijay K. Sood, Monalisa Biswal, Saumendra Sarangi, Hassan Haes Alhelou, 2024-02-26 Smart Metering Infrastructure Methodologies Applications and Challenges combines the fundamentals of smart meters in smart grids with the latest advances and technologies in advanced smart infrastructure With a strong focus on practical

guidance and applications this book examines the design and implementation of smart meters as well as cyber security and data management challenges Following an introduction to smart grid architecture the book details design elements of smart meters to enable them for specific applications such as recording the energy consumption of users load forecasting resilience enhancement and energy theft detection A deep dive into smart meter data analytics is then presented accompanied by load forecasting methods and their advantages and challenges Subsequent chapters also discuss outage management fault identification and other applications of smart meters including power network connection verifications This is a comprehensive resource on smart metering and a valuable read to students researchers and engineers interested in power systems engineering smart grids and smart energy technologies Discusses advanced architecture in the context of establishing smart meters in smart grids for enhanced operation and data utilization Provides detailed discussions on smart meter data analysis Explores the design of smart meters and possible implementation of AI ML and other advanced methodologies to enhance the functions of power systems using smart meter data

Critical Information Infrastructures Security Gregorio D'Agostino, Antonio Scala, 2018-09-08 This book constitutes revised selected papers from the 12th International Conference on Critical Information Infrastructures Security CRITIS 201 held in Lucca Italy in October 2017 The 21 full papers and 4 short papers presented were carefully reviewed and selected from 63 submissions They present innovative research and explore new challenges in the field of critical information infrastructures protection C I IP and deal with multi disciplinary approaches to relevant C I IP problems

Flexible Electronics for Electric Vehicles Sunil Kumar Goyal, Dheeraj Kumar Palwalia, Rajiv Tiwari, Yeshpal Gupta, 2023-11-02 This volume comprises the select proceedings of the 3rd Conference on Flexible Electronics for Electric Vehicles FlexEV 2022 It aims to provide a comprehensive and broad spectrum picture of the state of the art research and development in flexible electronics applications electric vehicle technology infrastructures materials devices battery management intelligent systems This volume will prove a valuable resource for those in academia and industry

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