

Communication and Networking in Smart Grids



Edited by Yang Xiao



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Communication And Networking In Smart Grids

Yang Xiao



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Communication Networks for Smart Grids Kenneth C. Budka, Jayant G. Deshpande, Marina Thottan, 2014-02-06 This book presents an application centric approach to the development of smart grid communication architecture. The coverage includes in depth reviews of such cutting edge applications as advanced metering infrastructure, distribution automation, demand response and synchrophasors. Features examines a range of exciting utility applications made possible through smart grid evolution, describes the core edge network architecture for smart grids introducing the concept of WANs and FANs, explains how the network design paradigm for smart grids differs from that for more established data networks and discusses network security in smart grids, provides an overview of communication network technologies for WANs and FANs covering OPGW, PLC and LTE and MPLS technology, investigates secure data centric data management and data analytics for smart grids, discusses the transformation of a network from conventional modes of utility operation to an integrated network based on the smart grid architecture framework.

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Smart Grids and Their Communication Systems Ersan Kabalci, Yasin Kabalci, 2019 The book presents a broad overview of emerging smart grid technologies and communication systems offering a helpful guide for future research in the field of electrical engineering and communication engineering. It explores recent advances in several computing technologies and their performance evaluation and addresses a wide range of topics such as the essentials of smart grids for fifth generation 5G communication systems. It also elaborates the role of emerging communication systems such as 5G internet of things (IoT), IEEE 802.15.4 and cognitive radio networks in smart grids. The book includes detailed surveys and case studies on current trends in smart grid systems and communications for smart metering and monitoring, smart grid energy storage systems, modulations and waveforms for 5G networks. As such, it will be of interest to practitioners and researchers in the field of smart grid and communication infrastructures alike.

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grids The book is divided into two parts Smart Grids in General and Communications and Networks in Smart Grids Its comprehensive coverage includes Management of locally generated powers in micro grids Multi perspective service management in virtual power plants Distributed algorithms for demand management and grid stability in smart grids Electric distribution grid optimizations for plug in electric vehicles Communication technologies networks and strategies for practical smart grid deployments from substations to meters Ontology based resource description and discovery framework for low Carbon grid networks QoS in networking for smart grids Outlining an optimum method for the design of distributed electric power supply and communication networks the book reports on key ICT system engineering trends for regional energy marketplaces supporting electric mobility It considers the spectrum of related topics in communication IT and security to provide you with the understanding needed to participate in the development design and implementation of future smart grid communications and networks Smart Grid Communications and Networking Ekram Hossain,Zhu Han,H. Vincent Poor,2012-05-24 This one stop reference provides the state of the art theory key strategies protocols deployment aspects standardization activities and experimental studies of communication and networking technologies for the smart grid Expert authors provide all the essential information researchers need to progress in the field and to allow power systems engineers to optimize their communication systems Communication Challenges and Solutions in the Smart Grid Fayçal Bouhafs,Michael Mackay,Madjid Merabti,2014-10-31 This SpringerBrief discusses the rise of the smart grid from the perspective of computing and communications It explains how current and next generation network technology and methodologies help recognize the potential that the smart grid initiative promises Chapters provide context on the smart grid before exploring specific challenges related to communication control and energy management Topics include control in heterogeneous power supply solutions for backhaul and wide area networks home energy management systems and technologies for smart energy management systems Designed for researchers and professionals working on the smart grid Communication Challenges and Solutions in the Smart Grid offers context and applications for the common issues of this developing technology Advanced level students interested in networking and communications engineering will also find the brief valuable Communication Networks in Smart Power Grids Boyang Zhou,2025-04-10 Presents an up to date overview of resilient communication networks for smart electric power grids Smart electric power grids require reliable communication networks to maintain efficiency security and stability The interconnected nature of these systems creates unique challenges including cascading failures natural disasters and network congestion Despite the importance of building communication networks to connect the next generation of smart power grids existing literature is lacking in both depth and relevance Communication Networks in Smart Power Grids bridges this gap offering a robust examination of cutting edge technologies and techniques for ensuring uninterrupted data transmission In this authoritative volume author Boyang Zhou provides a detailed exploration of smart grid communication channels focusing on Quality of Service QoS requirements and

the resilience necessary to counter data loss network failures and delays Addressing a wide range of key topics from Supervisory Control and Data Acquisition SCADA systems to high payload packet loss mitigation the author presents practical strategies and solutions for fortifying data transport layers Throughout the book Zhou introduces cutting edge research techniques to address communication link failures link flooding attacks LFAs cascading grid failures and other critical issues Offering innovative approaches to building the next generation of smart grid communication networks this essential resource Provides a comprehensive examination of the design and implementation of highly resilient communication networks in smart electric power grids Focuses on Quality of Service QoS and reliability ensuring efficient data transmission and reduced packet loss Presents real world strategies for mitigating network congestion natural disasters and high payload packet losses Features practical insights from a leading expert in smart grid communications industrial internet security and network resilience Explores data forwarding reliability transmission control protocols and routing reliability assurance tailored for smart grids Combining insights from communication networks power grid operations and advanced network security techniques Communication Networks in Smart Power Grids is a must read for advanced researchers and professionals in communication networks network security and smart grid systems It is also an excellent textbook for courses on smart grid technology network resilience and industrial IoT in electrical engineering computer science and industrial technology programs

Smart Grid Communications and Networking Ekram Hossain, 2012 One stop reference to state of the art theory key strategies protocols deployment aspects standardization activities and experimental studies of technologies for the smart grid

Transportation and Power Grid in Smart Cities Hussein T. Mouftah, Melike Erol-Kantarci, Mubashir Husain Rehmani, 2018-12-28 With the increasing worldwide trend in population migration into urban centers we are beginning to see the emergence of the kinds of mega cities which were once the stuff of science fiction It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real time monitoring and response services for public utilities and transportation systems Part speculative look into the future of the world's urban centers part technical blueprint this visionary book helps lay the groundwork for the communication networks and services on which tomorrow's smart cities will run Written by a uniquely well qualified author team this book provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality

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