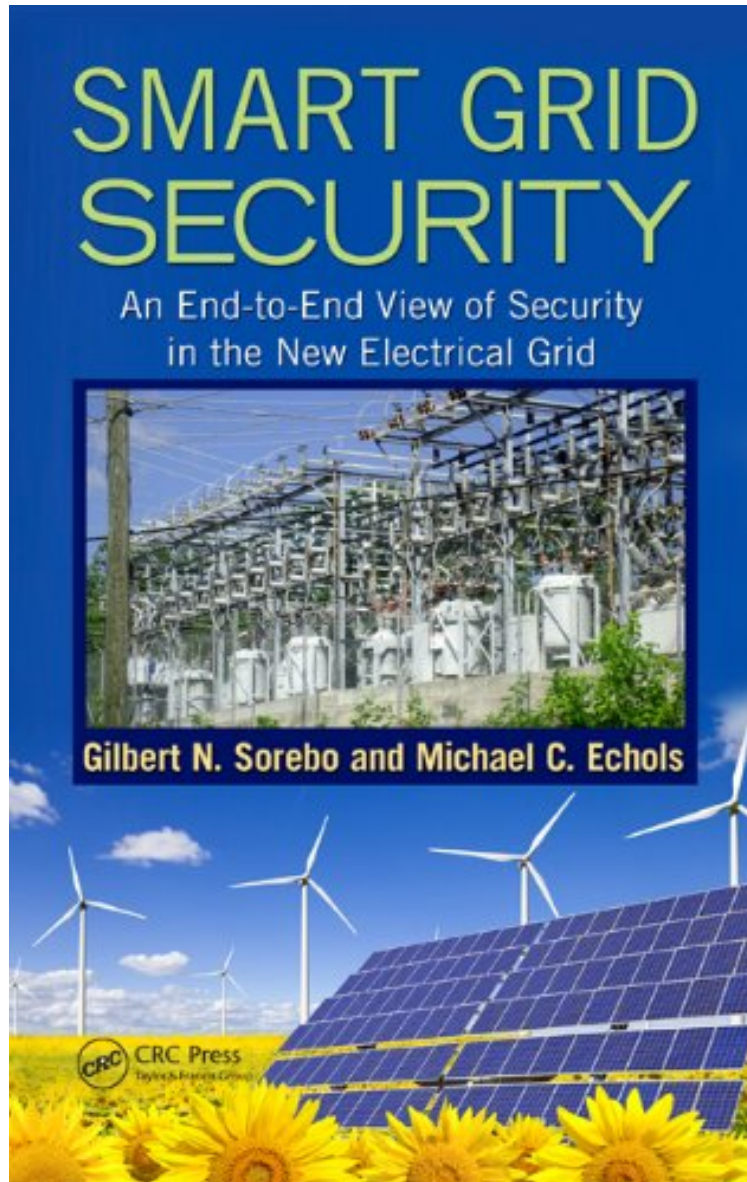


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Smart Grid Security: An End-to-End View of Security in the New Electrical Grid

Von Gilbert N. Sorebo, Michael C. Echols
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Von Gilbert N. Sorebo, Michael C. Echols : Smart Grid Security: An End-to-End View of Security in the New Electrical Grid before purchasing it in order to gage whether or not it would be worth my time, and all praised Smart Grid Security: An End-to-End View of Security in the New Electrical Grid:

KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. Broad end to end overview about the Smart GridVon RezensentThis book is for people that want to know what Smart Grid actually is - even if they are not into security. It gives a broad and comprehensive overview about the different domains of Smart Grid - from high voltage transmission networks down to home automation. It covers the different systems, assets and processes of Smart Grid.The main author has a background in law and political science and therefore the book has a strong focus on the US regulatory background and the general risk landscape per Smart Grid domain. There is only very sporadic coverage of concrete risk treatment options besides the (valid) observation that security is a process and a journey and not a product.This book is not meant for Smart Grid security engineers. But it may be suitable for IT security engineers that want to move into the Smart Grid security business and need to get a first overview. For me the lack of technology depth and the strong focus on the US were a little disappointing. Non US readers are probably better off with other Smart Grid security books.

KurzbeschreibungThe Smart Grid has the potential to revolutionize electricity delivery systems, and the security of its infrastructure is a vital concern not only for cyber-security practitioners, engineers, policy makers, and utility executives, but also for the media and consumers. Smart Grid Security: An End-to-End View of Security in the New Electrical Grid explores the important techniques, challenges, and forces that will shape how we achieve a secure twenty-first century electric grid.Includes a Foreword by Michael Assante, President and CEO, National Board of Information Security ExaminersFollowing an overview of the components of the Smart Grid, the book delves into the evolution of security standards and regulations and examines ways in which the Smart Grid might be regulated. The authors discuss the technical details about how metering technology is being implemented and the likely threats and vulnerabilities that utilities will face. They address the home area network (HAN) and examine distribution and transmissionthe foundation for the delivery of electricity, along with distributed generation, micro-grids, and operations.The book explores future concepts such as energy storage and the use of plug-in electric vehicles (PEVs)in addition to the concomitant risk for fraud and manipulation with stored energy. Consumer-related issues are discussed as they pertain to emerging ways of receiving and generating energy. The book examines dysfunctions ranging from inadvertent outages to cyber-attack and presents recommendations on how to respond to these incidents. It concludes with speculation of future cyber-security challenges and discusses new ways that the grid can be defended, such as better key management and protection.Written in a style rigorous enough for the practitioner yet accessible to a broad audience, this comprehensive volume covers a topic that is becoming more critical to industry and consumers everywhere.Pressestimmen"Between them, authors Gib Sorebo and Michael Echols have the chops to go deep into the technical weeds of grid security risks, challenges and solutions. However, their aim is quite different than a technical tour de force I highly recommend this book for anyone for who cares that their grid is as reliable, efficient and secure as possible." Andy Bochman, Smart Grid Security Blog"In Smart Grid Security: An End-to-End View of Security in the New Electrical Grid, authors Gilbert Sorebo and Michael Echols do an excellent job of providing the reader with a comprehensive overview of what the smart grid is, what the security and privacy risks are, and ways in which to mitigate those risks. For those looking to get a handle on how to secure the evolving and dynamic smart grid, Smart Grid Security: An End-to-End View of Security in the New Electrical Grid is an excellent reference. 4 stars." Security Management, December 2012 KurzbeschreibungThe Smart Grid has the potential to revolutionize electricity delivery systems, and the security of its infrastructure is a vital concern not only for cyber-security practitioners, engineers, policy makers, and utility executives, but also for the media and consumers. Smart Grid Security: An End-to-End View of Security in the New Electrical Grid explores the important techniques, challenges, and forces that will shape how we achieve a secure twenty-first century electric grid.Includes a Foreword by Michael Assante, President and CEO, National Board of Information Security ExaminersFollowing an overview of the components of the Smart Grid, the book delves into the evolution of security standards and regulations and examines ways in which the Smart Grid might be regulated. The authors discuss the technical details about how metering technology is being implemented and the likely threats and vulnerabilities that utilities will face. They address the home area network (HAN) and examine distribution and transmissionthe foundation for the delivery of electricity, along with distributed generation, micro-grids, and operations.The book explores future concepts such as energy storage and the use of plug-in electric vehicles (PEVs)in addition to the concomitant risk for fraud and manipulation with stored energy. Consumer-related issues are discussed as they pertain to emerging ways of receiving and generating energy. The book examines dysfunctions ranging from inadvertent outages to cyber-attack and presents recommendations on how to respond to these incidents. It concludes with speculation of future cyber-security challenges and discusses new ways that the grid can be defended, such as better key management and protection.Written in a style rigorous enough for the practitioner yet accessible to a broad audience, this comprehensive volume covers a topic that is becoming more critical to industry and consumers everywhere.