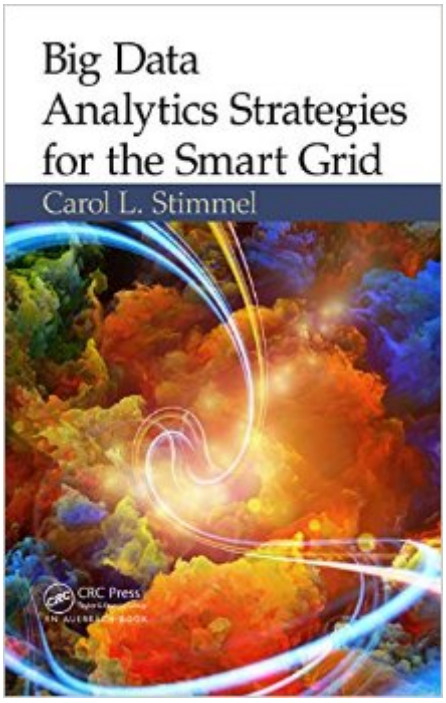
Big Data Analytics Strategies For The Smart Grid



Synopsis

By implementing a comprehensive data analytics program, utility companies can meet the continually evolving challenges of modern grids that are operationally efficient, while reconciling the demands of greenhouse gas legislation and establishing a meaningful return on investment from smart grid deployments.Readable and accessible, Big Data Analytics Strategies for the Smart Grid addresses the needs of applying big data technologies and approaches, including Big Data cybersecurity, to the critical infrastructure that makes up the electrical utility grid. It supplies industry stakeholders with an in-depth understanding of the engineering, business, and customer domains within the power delivery market.The book explores the unique needs of electrical utility grids, including operational technology, IT, storage, processing, and how to transform grid assets for the benefit of both the utility business and energy consumers. It not only provides specific examples that illustrate how analytics work and how they are best applied, but also describes how to avoid potential problems and pitfalls.Discussing security and data privacy, it explores the role of the utility in protecting their customersâ ™ right to privacy while still engaging in forward-looking business practices. The book includes discussions of: SAS for asset management tools The AutoGrid approach to commercial analytics Space-Time Insightâ ™s work at the California ISO (CAISO) This book is an ideal resource for mid- to upper-level utility executives who need to understand the business value of smart grid data analytics. It explains critical concepts in a manner that will better position executives to make the right decisions about building their analytics programs.At the same time, the book provides sufficient technical depth that it is useful for data analytics professionals who need to better understand the nuances of the engineering and business challenges unique to the utilities industry.

Book Information

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Customer Reviews

Best book so far on Big Data Analytics for Energy

Carol Stimmel provides an articulate view of the potential of big data analytics to make the electric grid more resilient and secure in her book, Big Data Analytics Strategies for the Smart Grid. She does an excellent job speaking to both the consumer and the utility executive and defining the smart grid and big data analytics - and how the two are intertwined. While practical, the language and topics are also infused with hope and humor. In short: it’s a good read.

Readable and informative; clearly and carefully written so as to allow nearly anybody to understand and apply these concepts (which are of ever-increasing importance) -- thank you Carol for this invaluable resource

Very High Level

Big Data For Beginners: Understanding SMART Big Data, Data Mining & Data Analytics For improved Business Performance, Life Decisions & More! Data Analytics: Practical Data Analysis and Statistical Guide to Transform and Evolve Any Business Leveraging the Power of Data Analytics, Data Science, ... (Hacking Freedom and Data Driven Book 2) Big Data Analytics Strategies for the Smart Grid Big Data, MapReduce, Hadoop, and Spark with Python: Master Big Data Analytics and Data Wrangling with MapReduce Fundamentals using Hadoop, Spark, and Python Living Off The Grid And Loving It: 40 Creative Ways To Living A Stress Free And Self-Sustaining Lifestyle (Simple Living, Off Grid Living, Off The Grid Homes, DIY Survival Guide, Prepping & Survival) Grid Down: How To Prepare For Surviving A Gas, Water, Or Electricity Grid Collapse (EMP Survival, Emergency Preparedness, Off The Grid, SHTF Stockpile, ... Camping, SHTF Books, SHTF Preparedness) Data Just Right: Introduction to Large-Scale Data & Analytics (Addison-Wesley Data and Analytics) Data Architecture: A Primer for the Data Scientist: Big Data, Data Warehouse and Data Vault Big Data Driven Supply Chain Management: A Framework for Implementing Analytics and Turning Information Into Intelligence (FT Press Analytics) The Data

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