

# Download Ebook Statistics Unlocking Power Of Data Answers Read Pdf Free

Collect, Combine, and Transform Data Using Power Query in Excel and Power BI Feb 07 2022 Using Power Query, you can import, reshape, and cleanse any data from a simple interface, so you can mine that data for all of its hidden insights. Power Query is embedded in Excel, Power BI, and other Microsoft products, and leading Power Query expert Gil Raviv will help you make the most of it. Discover how to eliminate time-consuming manual data preparation, solve common problems, avoid pitfalls, and more. Then, walk through several complete analytics challenges, and integrate all your skills in a realistic chapter-length final project. By the time you're finished, you'll be ready to wrangle any data—and transform it into actionable knowledge. Prepare and analyze your data the easy way, with Power Query · Quickly prepare data for analysis with Power Query in Excel (also known as Get & Transform) and in Power BI · Solve common data preparation problems with a few mouse clicks and simple formula edits · Combine data from multiple sources, multiple queries, and mismatched tables · Master basic and advanced techniques for unpivoting tables · Customize transformations and build flexible data mashups with the M formula language · Address collaboration challenges with Power Query · Gain crucial insights into text feeds · Streamline complex social network analytics so you can do it yourself For all information workers, analysts, and any Excel user who wants to solve their own business intelligence problems.

Power to the Public Dec 20 2022 “Worth a read for anyone who cares about making change happen.”—Barack Obama A powerful new blueprint for how governments and nonprofits can harness the power of digital technology to help solve the most serious problems of the twenty-first century As the speed and complexity of the world increases, governments and nonprofit organizations need new ways to effectively tackle the critical challenges of our time—from pandemics and global warming to social media warfare. In *Power to the Public*, Tara Dawson McGuinness and Hana Schank describe a revolutionary new approach—public interest technology—that has the potential to transform the way governments and nonprofits around the world solve problems. Through inspiring stories about successful projects ranging from a texting service for teenagers in crisis to a streamlined foster care system, the authors show how public interest technology can make the delivery of services to the public more effective and efficient. At its heart, public interest technology means putting users at the center of the policymaking process, using data and metrics in a smart way, and running small experiments and pilot programs before scaling up. And while this approach may well involve the innovative use of digital technology, technology alone is no panacea—and some of the best solutions may even be decidedly low-tech. Clear-eyed yet profoundly optimistic, *Power to the Public* presents a powerful blueprint for how government and nonprofits can help solve society's most serious problems.

Big Data Application in Power Systems Apr 04 2024 *Big Data Application in Power Systems, Second Edition* presents a thorough update of the previous volume, providing readers with step-by-step guidance in big data analytics utilization for power system diagnostics, operation, and control. Bringing back a team of global experts and drawing on fresh, emerging perspectives, this book provides cutting-edge advice for meeting today's challenges in this rapidly accelerating area of power engineering. Divided into three parts, this book begins by breaking down the big picture for electric utilities, before zooming in to examine theoretical problems and solutions in detail. Finally, the third section provides case studies and applications, demonstrating solution troubleshooting and design from a variety of perspectives and for a range of technologies. Readers will develop new strategies and techniques for leveraging data towards real-world outcomes. Including five brand new chapters on emerging technological solutions, *Big Data Application in Power Systems, Second Edition* remains an essential resource for the reader aiming to utilize the potential of big data in the power systems of the future. Provides a total refresh to include the most up-to-date research, developments, and challenges Focuses on practical techniques, including rapidly modernizing monitoring systems, measurement data availability, big data handling and machine learning approaches for processing high dimensional, heterogeneous, and spatiotemporal data Engages with cross-disciplinary lessons, drawing on the impact of intersectional technology including statistics, computer science, and bioinformatics Includes five brand new chapters on hot topics, ranging from

uncertainty decision-making to features, selection methods, and the opportunities provided by social network data  
**Statistics** May 25 2023

Data Power Jan 21 2023

*Data Literacy Fundamentals* Oct 06 2021 The vast majority of people in the world today do not receive a formal education that adequately prepares them for the level of data literacy required of them in their careers and by their communities. As a result, many are being left behind by the transition to data-driven dialogues and decisions all around them, and they're seeking ways to break down the barriers that are preventing them from participating. *Data Literacy Fundamentals* covers foundational topics such as the overall goal of data, various ways of measuring and categorizing the world, five different forms of data analysis and when they apply, pros and cons related to how we display data in tabular or graphic form, and the way teams work together to convert data into insight. This book has been written for anyone who is just getting started with data and who wants to feel more confident in their understanding of what it is, what it isn't, and what it's used for. This invaluable resource will cure you of your "dataphobia", teach you the basic concepts of data, and set you on a path of learning that will ultimately result in fluency in the language of data.

Harness the Power of Big Data The IBM Big Data Platform Jan 01 2024 Boost your Big Data IQ! Gain insight into how to govern and consume IBM's unique in-motion and at-rest Big Data analytic capabilities Big Data represents a new era of computing—an inflection point of opportunity where data in any format may be explored and utilized for breakthrough insights—whether that data is in-place, in-motion, or at-rest. IBM is uniquely positioned to help clients navigate this transformation. This book reveals how IBM is infusing open source Big Data technologies with IBM innovation that manifest in a platform capable of "changing the game." The four defining characteristics of Big Data—volume, variety, velocity, and veracity—are discussed. You'll understand how IBM is fully committed to Hadoop and integrating it into the enterprise. Hear about how organizations are taking inventories of their existing Big Data assets, with search capabilities that help organizations discover what they could already know, and extend their reach into new data territories for unprecedented model accuracy and discovery. In this book you will also learn not just about the technologies that make up the IBM Big Data platform, but when to leverage its purpose-built engines for analytics on data in-motion and data at-rest. And you'll gain an understanding of how and when to govern Big Data, and how IBM's industry-leading InfoSphere integration and governance portfolio helps you understand, govern, and effectively utilize Big Data. Industry use cases are also included in this practical guide.

Trillion Dollar Data Hives: Unleashing the Power of Data for Business Successes Apr 23 2023 Unlocking the Secrets of Trillion Dollar Data Hives Data has become the lifeblood of modern businesses. But what does it really take to build an unstoppable data hive? In this insightful book, readers will go behind the scenes of the world's largest data-driven enterprises like Google, Amazon, and Facebook. They will discover how these companies transformed from startups into trillion-dollar giants by mastering the art of data collection and analytics. Through real-world case studies and interviews with industry leaders, learn: How to evolve your organization into a bustling "data ecosystem" that collaborates to gain valuable insights. • Effective strategies for collecting and storing vast amounts of customer and operational data securely at scale. • Powerful techniques for applying artificial intelligence to amplify human intelligence and supercharge decision-making. • Practical ways to harness data-driven insights across departments to revolutionize products, marketing, and overall business strategy. For any executive seeking to understand the data-first principles that separate industry disruptors, this book delivers unprecedented access into the trillion-dollar data hives shaping the future of business. Its lessons will help you unlock new frontiers of growth in the digital age.

**Analyzing Data with Power BI and Power Pivot for Excel** Apr 11 2022 Renowned DAX experts Alberto Ferrari and Marco Russo teach you how to design data models for maximum efficiency and effectiveness. How can you use Excel and Power BI to gain real insights into your information? As you examine your data, how do you write a formula that provides the numbers you need? The answers to both of these questions lie with the data model. This book introduces the basic techniques for shaping data models in Excel and Power BI. It's meant for readers who are new to data modeling as well as for experienced data modelers looking for tips from the experts. If you want to use Power BI or Excel to analyze data, the many real-world examples in this book will help you look at your reports in a different way—like experienced data modelers do. As you'll soon see, with the right data

model, the correct answer is always a simple one! By reading this book, you will:

- Gain an understanding of the basics of data modeling, including tables, relationships, and keys
- Familiarize yourself with star schemas, snowflakes, and common modeling techniques
- Learn the importance of granularity
- Discover how to use multiple fact tables, like sales and purchases, in a complex data model
- Manage calendar-related calculations by using date tables
- Track historical attributes, like previous addresses of customers or manager assignments
- Use snapshots to compute quantity on hand
- Work with multiple currencies in the most efficient way
- Analyze events that have durations, including overlapping durations
- Learn what data model you need to answer your specific business questions

About This Book

- For Excel and Power BI users who want to exploit the full power of their favorite tools
- For BI professionals seeking new ideas for modeling data

**Big Data** Nov 30 2023 Leverage big data to add value to your business Social media analytics, web-tracking, and other technologies help companies acquire and handle massive amounts of data to better understand their customers, products, competition, and markets. Armed with the insights from big data, companies can improve customer experience and products, add value, and increase return on investment. The tricky part for busy IT professionals and executives is how to get this done, and that's where this practical book comes in. **Big Data: Understanding How Data Powers Big Business** is a complete how-to guide to leveraging big data to drive business value. Full of practical techniques, real-world examples, and hands-on exercises, this book explores the technologies involved, as well as how to find areas of the organization that can take full advantage of big data. Shows how to decompose current business strategies in order to link big data initiatives to the organization's value creation processes Explores different value creation processes and models Explains issues surrounding operationalizing big data, including organizational structures, education challenges, and new big data-related roles Provides methodology worksheets and exercises so readers can apply techniques Includes real-world examples from a variety of organizations leveraging big data **Big Data: Understanding How Data Powers Big Business** is written by one of Big Data's preeminent experts, William Schmarzo. Don't miss his invaluable insights and advice.

**Statistics** Jun 06 2024 **Statistics: Unlocking the Power of Data, 3rd Edition** is designed for an introductory statistics course focusing on data analysis with real-world applications. Students use simulation methods to effectively collect, analyze, and interpret data to draw conclusions. Randomization and bootstrap interval methods introduce the fundamentals of statistical inference, bringing concepts to life through authentically relevant examples. More traditional methods like t-tests, chi-square tests, etc. are introduced after students have developed a strong intuitive understanding of inference through randomization methods. While any popular statistical software package may be used, the authors have created StatKey to perform simulations using data sets and examples from the text. A variety of videos, activities, and a modular chapter on probability are adaptable to many classroom formats and approaches.

**Data Ethics of Power** Jun 25 2023 **Data Ethics of Power** takes a reflective and fresh look at the ethical implications of transforming everyday life and the world through the effortless, costless, and seamless accumulation of extra layers of data. By shedding light on the constant tensions that exist between ethical principles and the interests invested in this socio-technical transformation, the book bridges the theory and practice divide in the study of the power dynamics that underpin these processes of the digitalization of the world.

**A Combined Data and Power Management Infrastructure** Feb 19 2023 This book describes the development and design of a unique combined data and power management infrastructure The use in small satellites gives some particular requirements to the systems like potential hardware failure robustness and handling of different types of external analog and digital interfaces. These requirements lead to a functional merge between On Board Computer and the satellite's Power Control and Distribution Unit, which results in a very innovative design and even a patent affiliation. This book provides system engineers and university students with the technical knowledge as mix between technical brochure and a user guide.

**Statistics** Dec 08 2021

**Power Query Cookbook** Aug 04 2021 Leverage your source data from hundreds of different connections, perform millions of different transformations, and easily manage highly complex data lifecycles with Power Query Key Features Collect, combine, and transform data using Power Query's data connectivity and data preparation features Overcome the problems faced while accessing data from multiple sources and reshape it to

meet your business requirements Explore how the M language can be used to write your own customized solutions

**Book Description** Power Query is a data preparation tool that enables data engineers and business users to connect, reshape, enrich, and transform their data to facilitate relevant business insights and analysis. With Power Query's wide range of features, you can perform no-code transformations and complex M code functions at the same time to get the most out of your data. This Power Query book will help you to connect to data sources, achieve intuitive transformations, and get to grips with preparation practices. Starting with a general overview of Power Query and what it can do, the book advances to cover more complex topics such as M code and performance optimization. You'll learn how to extend these capabilities by gradually stepping away from the Power Query GUI and into the M programming language. Additionally, the book also shows you how to use Power Query Online within Power BI Dataflows. By the end of the book, you'll be able to leverage your source data, understand your data better, and enrich it with a full stack of no-code and custom features that you'll learn to design by yourself for your business requirements. What you will learn

Understand how to use Power Query to connect and explore data  
Explore ways to reshape and enrich data  
Discover the potential of Power Query across the Microsoft platform  
Build complex and custom transformations  
Use M code to write new queries against data sources  
Use the Power Query Online tool within Power BI Dataflows  
Implement best practices such as reusing dataflows, optimizing expanding table operations, and field mapping

**Who this book is for** This book is for data analysts, BI developers, data engineers, and anyone looking for a desk reference guide to learn how Power Query can be used with different Microsoft products to handle data of varying complexity. Beginner-level knowledge of Power BI and the M Language will help you to get the best out of this book.

**The Power of Data Storytelling** Mar 23 2023 The first-of-its-kind book on data story telling set in the Indian context by an Indian author. The Power of Data Storytelling is a book that aims to solve the classic dilemma of—How do I make company data interesting and present it in the form of a great data story for today's time-crunched professionals. The book focuses on various methods of converting dry facts and figures into interesting characters, events and relaying them in the form of a story to enable company's decision-making. The book covers all data story related aspects—art of storytelling, building, writing and visualizing. The book reflects practical corporate examples from varied fields and how data storytelling enabled the decision-making process. It does not require knowledge of sophisticated tools and introduces new, simple and application-oriented methods at every stage to take data storytelling forward. The book has wide application across industries and organizations with data sets that are big and small. It has explanatory written and visual examples at every discussion which makes it less theoretical and more practically applicable.

*The Power of Data* Feb 27 2021 "This book is a theoretical work on data journalism production that drills down the models, narratives, and ethics. From idea to concept and then to a widespread innovative trend, data journalism has become a new global paradigm, facilitating the transformation to focus on data, convergence, and intelligence. Drawing on various theoretical resources of communication, narratology, ethics, management, literature and art, game studies, and data science, this book explores the cutting-edge issues in current data journalism production. It critically analyzes crucial topics, including the boundary generalization of data journalism, data science methodology, the illusion of choice in interactive narratives, the word-image relationship in data visualization, and pragmatic objectivity and transparency in production ethics. Provided with a toolbox of classic examples of global data journalism, this book will be of great value to scholars and students of data journalism or new media, data journalists, and journalism professionals interested in the areas"--

*Bits of Power* Jun 13 2022 Since Galileo corresponded with Kepler, the community of scientists has become increasingly international. A DNA sequence is as significant to a researcher in Novosibirsk as it is to one in Pasadena. And with the advent of electronic communications technology, these experts can share information within minutes. What are the consequences when more bits of scientific data cross more national borders and do it more swiftly than ever before? *Bits of Power* assesses the state of international exchange of data in the natural sciences, identifying strengths, weaknesses, and challenges. The committee makes recommendations about access to scientific data derived from public funding. The volume examines: Trends in the electronic transfer and management of scientific data. Pressure toward commercialization of scientific data, including the economic aspects of government dissemination of the data. The implications of proposed changes to intellectual property laws and the role of scientists in shaping legislative and legal solutions. Improving access to scientific data by and

from the developing world. Bits of Power explores how these issues have been addressed in the European Community and includes examples of successful data transfer activities in the natural sciences. The book will be of interest to scientists and scientific data managers, as well as intellectual property rights attorneys, legislators, government agencies, and international organizations concerned about the electronic flow of scientific data.

**Advancing the Power of Learning Analytics and Big Data in Education** May 01 2021 The term learning analytics is used in the context of the use of analytics in e-learning environments. Learning analytics is used to improve quality. It uses data about students and their activities to provide better understanding and to improve student learning. The use of learning management systems, where the activity of the students can be easily accessed, potentiated the use of learning analytics to understand their route during the learning process, help students be aware of their progress, and detect situations where students can give up the course before its completion, which is a growing problem in e-learning environments. Advancing the Power of Learning Analytics and Big Data in Education provides insights concerning the use of learning analytics, the role and impact of analytics on education, and how learning analytics are designed, employed, and assessed. The chapters will discuss factors affecting learning analytics such as human factors, geographical factors, technological factors, and ethical and legal factors. This book is ideal for teachers, administrators, teacher educators, practitioners, stakeholders, researchers, academicians, and students interested in the use of big data and learning analytics for improved student success and educational environments.

**The Power of Data Science in Business** Sep 28 2023 The Power of Data Science in Business is a groundbreaking book that reveals the transformative impact of data science on modern business. Written by leading experts in the field, this comprehensive guide offers a detailed overview of how data science can be applied to drive business success. Starting with an introduction to the fundamental concepts of data science, the book goes on to explore the various techniques and tools used in the field, including machine learning, data visualization, and predictive analytics. Drawing on real-world examples from a range of industries, the authors demonstrate how businesses can use data science to make more informed decisions, improve operational efficiency, and gain a competitive edge in the marketplace. Whether you are a business executive looking to harness the power of data to drive growth, or a data scientist seeking to advance your skills and knowledge, this book is an essential resource. Packed with practical advice, case studies, and expert insights, The Power of Data Science in Business is a must-read for anyone looking to leverage the power of data to transform their organization.

***Power BI Data Analysis and Visualization*** Nov 06 2021 Power BI Data Analysis and Visualization provides a roadmap to vendor choices and highlights why Microsoft's Power BI is a very viable, cost effective option for data visualization. The book covers the fundamentals and most commonly used features of Power BI, but also includes an in-depth discussion of advanced Power BI features such as natural language queries; embedding Power BI dashboards; and live streaming data. It discusses real solutions to extract data from the ERP application, Microsoft Dynamics CRM, and also offers ways to host the Power BI Dashboard as an Azure application, extracting data from popular data sources like Microsoft SQL Server and open-source PostgreSQL. Authored by Microsoft experts, this book uses real-world coding samples and screenshots to spotlight how to create reports, embed them in a webpage, view them across multiple platforms, and more. Business owners, IT professionals, data scientists, and analysts will benefit from this thorough presentation of Power BI and its functions.

**Be Data Driven** Sep 16 2022 Overcome the hurdles to building a data-driven organization with this roadmap to closing the skills gap, investing in the right technology and creating a successful culture. --

**Industry Unbound** May 13 2022 Privacy law isn't working. Waldman's groundbreaking work explains why, showing how tech companies manipulate us, our behavior, and our law.

**High Impact Data Visualization with Power View, Power Map, and Power BI** Sep 04 2021 High Impact Data Visualization with Power View, Power Map, and Power BI helps you take business intelligence delivery to a new level that is interactive, engaging, even fun, all while driving commercial success through sound decision-making. Learn to harness the power of Microsoft's flagship, self-service business intelligence suite to deliver compelling and interactive insight with remarkable ease. Learn the essential techniques needed to enhance the look and feel of reports and dashboards so that you can seize your audience's attention and provide them with clear and accurate information. Also learn to integrate data from a variety of sources and create coherent data models displaying clear metrics and attributes. Power View is Microsoft's ground-breaking tool for ad-hoc data

visualization and analysis. It's designed to produce elegant and visually arresting output. It's also built to enhance user experience through polished interactivity. Power Map is a similarly powerful mechanism for analyzing data across geographic and political units. Power Query lets you load, shape and streamline data from multiple sources. PowerPivot can extend and develop data into a dynamic model. Power BI allows you to share your findings with colleagues, and present your insights to clients. High Impact Data Visualization with Power View, Power Map, and Power BI helps you master this suite of powerful tools from Microsoft. You'll learn to identify data sources, and to save time by preparing your underlying data correctly. You'll also learn to deliver your powerful visualizations and analyses through the cloud to PCs, tablets and smartphones. Simple techniques take raw data and convert it into information. Slicing and dicing metrics delivers interactive insight. Visually arresting output grabs and focuses attention on key indicators.

**Street Data** Mar 30 2021 Radically reimagine our ways of being, learning, and doing Education can be transformed if we eradicate our fixation on big data like standardized test scores as the supreme measure of equity and learning. Instead of the focus being on "fixing" and "filling" academic gaps, we must envision and rebuild the system from the student up—with classrooms, schools and systems built around students' brilliance, cultural wealth, and intellectual potential. Street data reminds us that what is measurable is not the same as what is valuable and that data can be humanizing, liberatory and healing. By breaking down street data fundamentals: what it is, how to gather it, and how it can complement other forms of data to guide a school or district's equity journey, Safir and Dugan offer an actionable framework for school transformation. Written for educators and policymakers, this book · Offers fresh ideas and innovative tools to apply immediately · Provides an asset-based model to help educators look for what's right in our students and communities instead of seeking what's wrong · Explores a different application of data, from its capacity to help us diagnose root causes of inequity, to its potential to transform learning, and its power to reshape adult culture Now is the time to take an antiracist stance, interrogate our assumptions about knowledge, measurement, and what really matters when it comes to educating young people.

**Facts are Sacred** Oct 30 2023 A full-colour guide to the data that shapes our lives, looking behind the headlines and the soundbites to what's really going on. What are the real effects of the austerity measures? What is the true human cost of the war in Afghanistan?

**Privacy is Power** Aug 28 2023 An Economist Book of the Year Every minute of every day, our data is harvested and exploited... It is time to pull the plug on the surveillance economy. Governments and hundreds of corporations are spying on you, and everyone you know. They're not just selling your data. They're selling the power to influence you and decide for you. Even when you've explicitly asked them not to. Reclaiming privacy is the only way we can regain control of our lives and our societies. These governments and corporations have too much power, and their power stems from us--from our data. Privacy is as collective as it is personal, and it's time to take back control. Privacy Is Power tells you how to do exactly that. It calls for the end of the data economy and proposes concrete measures to bring that end about, offering practical solutions, both for policymakers and ordinary citizens.

**Advanced Data Analytics for Power Systems** Mar 03 2024 Experts in data analytics and power engineering present techniques addressing the needs of modern power systems, covering theory and applications related to power system reliability, efficiency, and security. With topics spanning large-scale and distributed optimization, statistical learning, big data analytics, graph theory, and game theory, this is an essential resource for graduate students and researchers in academia and industry with backgrounds in power systems engineering, applied mathematics, and computer science.

**M Is for (Data) Monkey** Aug 16 2022 Power Query is one component of the Power BI (Business Intelligence) product from Microsoft, and "M" is the name of the programming language created by it. As more business intelligence pros begin using Power Pivot, they find that they do not have the Excel skills to clean the data in Excel; Power Query solves this problem. This book shows how to use the Power Query tool to get difficult data sets into both Excel and Power Pivot, and is solely devoted to Power Query dashboarding and reporting.

**The Power of Experiments** Nov 18 2022 How tech companies like Google, Airbnb, StubHub, and Facebook learn from experiments in our data-driven world—an excellent primer on experimental and behavioral economics Have you logged into Facebook recently? Searched for something on Google? Chosen a movie on Netflix? If so,

you've probably been an unwitting participant in a variety of experiments—also known as randomized controlled trials—designed to test the impact of different online experiences. Once an esoteric tool for academic research, the randomized controlled trial has gone mainstream. No tech company worth its salt (or its share price) would dare make major changes to its platform without first running experiments to understand how they would influence user behavior. In this book, Michael Luca and Max Bazerman explain the importance of experiments for decision making in a data-driven world. Luca and Bazerman describe the central role experiments play in the tech sector, drawing lessons and best practices from the experiences of such companies as StubHub, Alibaba, and Uber. Successful experiments can save companies money—eBay, for example, discovered how to cut \$50 million from its yearly advertising budget—or bring to light something previously ignored, as when Airbnb was forced to confront rampant discrimination by its hosts. Moving beyond tech, Luca and Bazerman consider experimenting for the social good—different ways that governments are using experiments to influence or “nudge” behavior ranging from voter apathy to school absenteeism. Experiments, they argue, are part of any leader's toolkit. With this book, readers can become part of “the experimental revolution.”

**The Data Gaze** Feb 02 2024 A significant new way of understanding contemporary capitalism is to understand the intensification and spread of data analytics. This text is about the powerful promises and visions that have led to the expansion of data analytics and data-led forms of social ordering. It is centrally concerned with examining the types of knowledge associated with data analytics and shows that how these analytics are envisioned is central to the emergence and prominence of data at various scales of social life. This text aims to understand the powerful role of the data analytics industry and how this industry facilitates the spread and intensification of data-led processes. As such, *The Data Gaze* is concerned with understanding how data-led, data-driven and data-reliant forms of capitalism pervade organisational and everyday life. Using a clear theoretical approach derived from Foucault and critical data studies, the text develops the concept of the data gaze and shows how powerful and persuasive it is. It's an essential and subversive guide to data analytics and data capitalism.

**Metric Power** Jul 03 2021 This book examines the powerful and intensifying role that metrics play in ordering and shaping our everyday lives. Focusing upon the interconnections between measurement, circulation and possibility, the author explores the interwoven relations between power and metrics. He draws upon a wide-range of interdisciplinary resources to place these metrics within their broader historical, political and social contexts. More specifically, he illuminates the various ways that metrics implicate our lives – from our work, to our consumption and our leisure, through to our bodily routines and the financial and organisational structures that surround us. Unravelling the power dynamics that underpin and reside within the so-called big data revolution, he develops the central concept of Metric Power along with a set of conceptual resources for thinking critically about the powerful role played by metrics in the social world today.

**Extending Power BI with Python and R** Mar 11 2022 Perform more advanced analysis and manipulation of your data beyond what Power BI can do to unlock valuable insights using Python and R Key FeaturesGet the most out of Python and R with Power BI by implementing non-trivial codeLeverage the toolset of Python and R chunks to inject scripts into your Power BI dashboardsImplement new techniques for ingesting, enriching, and visualizing data with Python and R in Power BIBook Description Python and R allow you to extend Power BI capabilities to simplify ingestion and transformation activities, enhance dashboards, and highlight insights. With this book, you'll be able to make your artifacts far more interesting and rich in insights using analytical languages. You'll start by learning how to configure your Power BI environment to use your Python and R scripts. The book then explores data ingestion and data transformation extensions, and advances to focus on data augmentation and data visualization. You'll understand how to import data from external sources and transform them using complex algorithms. The book helps you implement personal data de-identification methods such as pseudonymization, anonymization, and masking in Power BI. You'll be able to call external APIs to enrich your data much more quickly using Python programming and R programming. Later, you'll learn advanced Python and R techniques to perform in-depth analysis and extract valuable information using statistics and machine learning. You'll also understand the main statistical features of datasets by plotting multiple visual graphs in the process of creating a machine learning model. By the end of this book, you'll be able to enrich your Power BI data models and visualizations using complex algorithms in Python and R. What you will learnDiscover best practices for using Python and R in Power BI productsUse Python and R to perform complex data manipulations in Power BIApply

data anonymization and data pseudonymization in Power BI  
Log data and load large datasets in Power BI using Python and R  
Enrich your Power BI dashboards using external APIs and machine learning models  
Extract insights from your data using linear optimization and other algorithms  
Handle outliers and missing values for multivariate and time-series data  
Create any visualization, as complex as you want, using R scripts  
Who this book is for This book is for business analysts, business intelligence professionals, and data scientists who already use Microsoft Power BI and want to add more value to their analysis using Python and R. Working knowledge of Power BI is required to make the most of this book. Basic knowledge of Python and R will also be helpful.

*Big Data Analytics in Future Power Systems* Jan 09 2022 Power systems are increasingly collecting large amounts of data due to the expansion of the Internet of Things into power grids. In a smart grids scenario, a huge number of intelligent devices will be connected with almost no human intervention characterizing a machine-to-machine scenario, which is one of the pillars of the Internet of Things. The book characterizes and evaluates how the emerging growth of data in communications networks applied to smart grids will impact the grid efficiency and reliability. Additionally, this book discusses the various security concerns that become manifest with Big Data and expanded communications in power grids. Provide a general description and definition of big data, which has been gaining significant attention in the research community. Introduces a comprehensive overview of big data optimization methods in power system. Reviews the communication devices used in critical infrastructure, especially power systems; security methods available to vet the identity of devices; and general security threats in CI networks. Presents applications in power systems, such as power flow and protection. Reviews electricity theft concerns and the wide variety of data-driven techniques and applications developed for electricity theft detection.

**Data Power** Jul 07 2024 An introduction to learning how to protect ourselves and organise against Big Data  
**Data Feminism** Oct 18 2022 A new way of thinking about data science and data ethics that is informed by the ideas of intersectional feminism. Today, data science is a form of power. It has been used to expose injustice, improve health outcomes, and topple governments. But it has also been used to discriminate, police, and surveil. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom? Data science for whom? Data science with whose interests in mind? The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. In *Data Feminism*, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. They explain how, for example, an understanding of emotion can expand our ideas about effective data visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever “speak for themselves.” *Data Feminism* offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. But *Data Feminism* is about much more than gender. It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed.

*Machine Learning and Data Science in the Power Generation Industry* Jul 27 2023 *Machine Learning and Data Science in the Power Generation Industry* explores current best practices and quantifies the value-add in developing data-oriented computational programs in the power industry, with a particular focus on thoughtfully chosen real-world case studies. It provides a set of realistic pathways for organizations seeking to develop machine learning methods, with a discussion on data selection and curation as well as organizational implementation in terms of staffing and continuing operationalization. It articulates a body of case study-driven best practices, including renewable energy sources, the smart grid, and the finances around spot markets, and forecasting. Provides best practices on how to design and set up ML projects in power systems, including all nontechnological aspects necessary to be successful Explores implementation pathways, explaining key ML algorithms and approaches as well as the choices that must be made, how to make them, what outcomes may be expected, and how the data must be prepared for them Determines the specific data needs for the collection, processing, and operationalization of data within machine learning algorithms for power systems Accompanied by numerous supporting real-world case studies, providing practical evidence of both best practices and potential pitfalls



*The Power of Data* Jul 15 2022 This book is a theoretical work on data journalism production that drills down the models, narratives, and ethics. From idea to concept and then to a widespread innovative trend, data journalism has become a new global paradigm, facilitating the transformation to focus on data, convergence, and intelligence. Drawing on various theoretical resources of communication, narratology, ethics, management, literature and art, game studies, and data science, this book explores the cutting-edge issues in current data journalism production. It critically analyzes crucial topics, including the boundary generalization of data journalism, data science methodology, the illusion of choice in interactive narratives, the word-image relationship in data visualization, and pragmatic objectivity and transparency in production ethics. Provided with a toolbox of classic examples of global data journalism, this book will be of great value to scholars and students of data journalism or new media, data journalists, and journalism professionals interested in the areas.

*Firewalls Don't Stop Dragons* Jun 01 2021 Rely on this practical, end-to-end guide on cyber safety and online security written expressly for a non-technical audience. You will have just what you need to protect yourself—step by step, without judgment, and with as little jargon as possible. Just how secure is your computer right now? You probably don't really know. Computers and the Internet have revolutionized the modern world, but if you're like most people, you have no clue how these things work and don't know the real threats. Protecting your computer is like defending a medieval castle. While moats, walls, drawbridges, and castle guards can be effective, you'd go broke trying to build something dragon-proof. This book is not about protecting yourself from a targeted attack by the NSA; it's about armoring yourself against common hackers and mass surveillance. There are dozens of no-brainer things we all should be doing to protect our computers and safeguard our data—just like wearing a seat belt, installing smoke alarms, and putting on sunscreen. Author Carey Parker has structured this book to give you maximum benefit with minimum effort. If you just want to know what to do, every chapter has a complete checklist with step-by-step instructions and pictures. The book contains more than 150 tips to make you and your family safer. It includes: Added steps for Windows 10 (Spring 2018) and Mac OS X High Sierra Expanded coverage on mobile device safety Expanded coverage on safety for kids online More than 150 tips with complete step-by-step instructions and pictures What You'll Learn Solve your password problems once and for all Browse the web safely and with confidence Block online tracking and dangerous ads Choose the right antivirus software for you Send files and messages securely Set up secure home networking Conduct secure shopping and banking online Lock down social media accounts Create automated backups of all your devices Manage your home computers Use your smartphone and tablet safely Safeguard your kids online And more! Who This Book Is For Those who use computers and mobile devices, but don't really know (or frankly care) how they work. This book is for people who just want to know what they need to do to protect themselves—step by step, without judgment, and with as little jargon as possible.

**Data Leadership for Everyone** May 05 2024 A revolutionary approach to bringing data and business together Data is lazy. It sits in files or databases, minding its own business but not accomplishing very much. Data is like someone in their mid-twenties, living with their parents, who won't get off the couch and make something of their life. Data is also the closest thing we have to truth in our organizations—but most business leaders today struggle using data to make an impact on what really matters: the success of their businesses. *Data Leadership for Everyone* is a game-changing book for anyone who believes in the power of data and is ready to create revolutionary change in their organization. Whether you're a C-suite executive, a manager, or an individual contributor, this book will propel your career by unlocking the mystery of how raw data transforms into real outcomes. In this book, data leadership advocate and transformation coach Anthony J. Algin reveals his five-step Data Leadership Framework, breaking down the complexity of data systems and empowering you to: Access and prepare data for use Refine data to maximize its potential Use data to find new insights Impact business success with data value Govern and scale data-driven outcomes Data is the key to the future success of all businesses, and anyone not making the most of data will lose, while those who can use data to drive business value will win. It's not enough to learn about data—business success requires a special leadership approach to connect data to the people, processes, and technologies unique to your organization. With over 150 specific takeaways, *Data Leadership for Everyone* is a must-have business leadership book to help you become a better data leader for the twenty-first century and beyond.

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