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Business Analytics for Beginners and Dummies ScholarlyEditions
Based on properly organized reprints by C. Yeh and his collaborators, innovative and original solutions to a number of fundamental problems, essential to the teaching and research in modern electromagnetics, are presented in *From Analytic to Numerical Electromagnetics*. The wide range of coverage from general applied theory to the pioneering development of canonical solutions and numerical methods offers a rare in-depth understanding of the methods used in solving complex problems in classical and modern electromagnetics. Selected specific examples of solved problems are: New derivation of boundary conditions, conditions for scalar wave approximation, completeness of the far-zone data, correct power loss calculation, limitations of directional coupler theory, calculation of noise temperature of lossy plate, canonical solutions for elliptic, parabolic or spheroidal dielectric structures, waves in periodic medium, focused beam scattering, relativistically moving medium, terahertz low-loss waveguides, WDM optical fiber solitons, particle radiation in complex medium, and being the first to develop these numerical methods - FEM, BPM, 4x4 Matrix Method, EBCM, TLM, and 2 Point Boundary Method - to solve complex Electromagnetics problems. Readers will find the subjects covered in this book to be a useful supplement to a standard advanced textbook on electromagnetics. To researchers and engineers, *From Analytic to Numerical Electromagnetics* will be a valuable reference and guide to obtain solutions to problems dealing with optical communications, optical solitons, photonics, and terahertz, plasmonic, metamaterial or nano waveguides. *ICCWS 2016 11th International Conference on Cyber Warfare and Security* Pearson Education Today, successful firms compete and win based on analytics. *Modeling Techniques in Predictive Analytics* brings together all the concepts, techniques, and R code you need to excel in any role involving analytics. Thomas W. Miller's unique balanced approach combines business context and quantitative tools, appealing to managers, analysts, programmers, and students alike. Miller addresses multiple business challenges and business cases, including segmentation, brand positioning, product choice modeling, pricing research, finance, sports, text analytics, sentiment analysis, and social network analysis. He illuminates the use of cross-sectional data, time series, spatial, and even spatio-temporal data. For each problem, Miller explains why the problem matters, what data is relevant, how to explore your data once you've identified it, and then how to successfully model that data. You'll learn how to model data conceptually, with words and figures; and then how to model it with realistic R

programs that deliver actionable insights and knowledge. Miller walks you through model construction, explanatory variable subset selection, and validation, demonstrating best practices for improving out-of-sample predictive performance. He employs data visualization and statistical graphics in exploring data, presenting models, and evaluating performance. All example code is presented in R, today's #1 system for applied statistics, statistical research, and predictive modeling; code is set apart from other text so it's easy to find for those who want it (and easy to skip for those who don't).

Population Health Analytics Academic Conferences and publishing limited

Following the clues that lead to increased sales or greater profits takes more than uncovering big data. Without effective data translation and communication, even the most sophisticated analytic effort can end in confusion - and your data insights won't impact company decision making. With practical advice for the every data analyst, this is your guide to navigating all aspects of client interaction and communicating straightforward solutions to affect company-wide change - from the back room to the board room. You'll learn: How to hit the Analytic Trifecta to ensure you're producing useful findings. How to design a clear story that summarizes business analytics. Different analyst behaviors for the 10 specific client types. Strategies to employ when a client challenges your analysis. How successful analysts get their work noticed. Become an irreplaceable analytic asset to your team. Get *The Analytic Detective* to start collaborating for more data-fueled results and more recognition in your career.

A Practitioner's Guide to Business Analytics (PB) CRC Press

This is a practical cookbook with intermediate-advanced recipes for SPSS Modeler data analysts. It is loaded with step-by-step examples explaining the process followed by the experts. If you have had some hands-on experience with IBM SPSS Modeler and now want to go deeper and take more control over your data mining process, this is the guide for you. It is ideal for practitioners who want to break into advanced analytics.

Coding Interviews ScholarlyEditions

With this book, managers and decision makers are given the tools to make more informed decisions about big data purchasing initiatives. *Big Data Analytics: A Practical Guide for Managers* not only supplies descriptions of common tools, but also surveys the various products and vendors that supply the big data market. Comparing and contrasting the dif

[Healthcare Analytics 101](#) Jones & Bartlett Learning

How can analytics scholars and healthcare professionals access the most exciting and important healthcare topics and tools for the 21st century? Editors Tinglong Dai and Sridhar Tayur, aided by a team of internationally acclaimed experts, have curated this timely volume to help newcomers and seasoned researchers alike to rapidly comprehend a diverse set of thrusts and tools in this rapidly growing cross-disciplinary field. The Handbook covers a wide range of macro-, meso- and micro-level thrusts—such as market design, competing interests, global health, personalized medicine, residential care and concierge medicine, among others—and

structures what has been a highly fragmented research area into a coherent scientific discipline. The handbook also provides an easy-to-comprehend introduction to five essential research tools—Markov decision process, game theory and information economics, queueing games, econometric methods, and data science—by illustrating their uses and applicability on examples from diverse healthcare settings, thus connecting tools with thrusts. The primary audience of the Handbook includes analytics scholars interested in healthcare and healthcare practitioners interested in analytics. This Handbook: Instills analytics scholars with a way of thinking that incorporates behavioral, incentive, and policy considerations in various healthcare settings. This change in perspective—a shift in gaze away from narrow, local and one-off operational improvement efforts that do not replicate, scale or remain sustainable—can lead to new knowledge and innovative solutions that healthcare has been seeking so desperately. Facilitates collaboration between healthcare experts and analytics scholar to frame and tackle their pressing concerns through appropriate modern mathematical tools designed for this very purpose. The handbook is designed to be accessible to the independent reader, and it may be used in a variety of settings, from a short lecture series on specific topics to a semester-long course.

IBM SPSS Modeler Cookbook Academic Press

Improve patient outcomes, lower costs, reduce fraud—all with healthcare analytics Healthcare Analytics for Quality and Performance Improvement walks your healthcare organization from relying on generic reports and dashboards to developing powerful analytic applications that drive effective decision-making throughout your organization. Renowned healthcare analytics leader Trevor Strome reveals in this groundbreaking volume the true potential of analytics to harness the vast amounts of data being generated in order to improve the decision-making ability of healthcare managers and improvement teams. Examines how technology has impacted healthcare delivery Discusses the challenge facing healthcare organizations: to leverage advances in both clinical and information technology to improve quality and performance while containing costs Explores the tools and techniques to analyze and extract value from healthcare data Demonstrates how the clinical, business, and technology components of healthcare organizations (HCOs) must work together to leverage analytics Other industries are already taking advantage of big data. Healthcare Analytics for Quality and Performance Improvement helps the healthcare industry make the most of the precious data already at its fingertips for long-overdue quality and performance improvement.

Practical Analytics Apress

Practical Data Analytics for Innovation in Medicine: Building Real Predictive and Prescriptive Models in Personalized Healthcare and Medical Research Using AI, ML, and Related Technologies, Second Edition discusses the needs of healthcare and medicine in the 21st century, explaining how data analytics play an important and revolutionary role. With healthcare effectiveness and economics facing growing challenges, there is a rapidly emerging movement to fortify medical treatment and administration by tapping the predictive power of big data, such as predictive analytics, which can bolster patient care, reduce costs, and deliver greater efficiencies across a wide range of operational functions. Sections bring a historical perspective, highlight the importance of using

predictive analytics to help solve health crisis such as the COVID-19 pandemic, provide access to practical step-by-step tutorials and case studies online, and use exercises based on real-world examples of successful predictive and prescriptive tools and systems. The final part of the book focuses on specific technical operations related to quality, cost-effective medical and nursing care delivery and administration brought by practical predictive analytics. Brings a historical perspective in medical care to discuss both the current status of health care delivery worldwide and the importance of using modern predictive analytics to help solve the health care crisis Provides online tutorials on several predictive analytics systems to help readers apply their knowledge on today ' s medical issues and basic research Teaches how to develop effective predictive analytic research and to create decisioning/prescriptive analytic systems to make medical decisions quicker and more accurate

Linear Difference Equations and Their Analytic Solutions Dog Ear Publishing

Make healthcare analytics work: leverage its powerful opportunities for improving outcomes, cost, and efficiency. This book gives you the practical frameworks, strategies, tactics, and case studies you need to go beyond talk to action. The contributing healthcare analytics innovators survey the field's current state, present start-to-finish guidance for planning and implementation, and help decision-makers prepare for tomorrow's advances. They present in-depth case studies revealing how leading organizations have organized and executed analytic strategies that work, and fully cover the primary applications of analytics in all three sectors of the healthcare ecosystem: Provider, Payer, and Life Sciences. Co-published with the International Institute for Analytics (IIA), this book features the combined expertise of IIA's team of leading health analytics practitioners and researchers. Each chapter is written by a member of the IIA faculty, and bridges the latest research findings with proven best practices. This book will be valuable to professionals and decision-makers throughout the healthcare ecosystem, including provider organization clinicians and managers; life sciences researchers and practitioners; and informaticists, actuaries, and managers at payer organizations. It will also be valuable in diverse analytics, operations, and IT courses in business, engineering, and healthcare certificate programs.

New Intelligence for a Smarter Planet John Wiley & Sons

Advances in Immediate Hypersensitivity Research and Treatment: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Immediate Hypersensitivity. The editors have built Advances in Immediate Hypersensitivity Research and Treatment: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Immediate Hypersensitivity in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Immediate Hypersensitivity Research and Treatment: 2011 Edition has been produced by the world ' s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at

<http://www.ScholarlyEditions.com/>.

Machine Learning for Decision Makers Packt Publishing Ltd

A comprehensive data analytics program is the only way utilities will be able to meet the challenges of modern grids with operational efficiency, while reconciling the demands of greenhouse gas legislation, and establishing a meaningful return on investment from smart grid deployments. This book addresses the requirements for applying big data technologies and approaches, including Big Data cybersecurity, to the critical infrastructure that makes up the electrical utility grid.

Signal Columbia University Press

In order to avoid the potentially catastrophic impacts of global warming, the current 3% CO₂ global emission growth rate must be transformed to a 1 to 3% declining rate, as soon as possible. This will require a rapid and radical transformation of the world's energy production and end use systems. The current generation of energy technologies are not capable of achieving the level of mitigation required. Next generations of renewable, low carbon generation and end use technologies will be needed. This book quantifies the mitigation challenge. It then considers the status of key technologies needed to protect the planet from serious climate change impact. Current and emerging technologies are characterized for their mitigation potential, status of development and potential environmental impacts. Power generation, mobile sources, industrial and building sectors are evaluated in detail. The importance and unique challenges for rapidly developing countries, such as China and India are discussed. Current global research and development efforts for key technologies are discussed. It is concluded that it will be necessary to substantially upgrade and accelerate the current worldwide R&D effort on both emerging energy technologies and those enabling technologies needed to improve mitigation effectiveness and economics. It will also be necessary to carefully evaluate the potential environmental characteristics of next generation technologies to avoid unacceptable health and ecological impacts. Finally, given the monumental technological challenge associated with transforming the world's energy system, geoengineering options are evaluated, since if successfully deployed, they have the potential to allow more time for the necessary energy system transformation. ' This book on Climate Change not only gives a clear picture of the problem but suggests many of the pitfalls in solving it and recommends strongly, a research program to fill the gaps in our knowledge. It is a most useful reference book for all aspects of the problem. ' William D. Ruckelshaus, Madrona Venture Group/Evergreen Venture

Sports Analytics Packt Publishing Ltd

The quantitative methods approach in this edition helps you maximize your success with a proven teach-by-example presentation, inviting writing style and complete integration of the latest version of Excel. The approach is also compatible with earlier versions of Excel for your convenience. This edition is more data-oriented than ever before with a new chapter on the two main Power BI tools in Excel -- Power Query and Power Pivot -- and a new section of data visualization with Tableau Public. Current problems and cases demonstrate the importance of the concepts you are learning. In addition, a useful Companion Website provides data and solutions files, SolverTable for optimization sensitivity analysis and Palisade DecisionTools Suite. MindTap online resources

are also available.

Modeling Techniques in Predictive Analytics Springer Science & Business Media

Data and analytics have the potential to provide sports organizations with a competitive advantage both on and off the field. Yet even as the use of analytics in sports has become commonplace, teams regularly find themselves making big investments without significant payoff. This book is a practical, nontechnical guide to incorporating sports data into decision making, giving leaders the knowledge they need to maximize their organization's investment in analytics. Benjamin C. Alamar—a leading expert who has built high-performing analytics groups—surveys the current state of the use of data in sports, including both specifics around the tools and how to deploy them most effectively. Sports Analytics offers a clear, easily digestible overview of data management, statistical models, and information systems and a detailed understanding of their vast possibilities. It walks readers through the essentials of understanding the value of different types of data and strategies for building and managing an analytics team. Throughout, Alamar illustrates the value of analytics with real-world examples and case studies from both the sports and business sides. Sports Analytics has guided a range of sports professionals to success since its original publication in 2013. This second edition adds examples and strategies that focus on using data on the business side of a sports organization, provides concrete strategies for incorporating different types of data into decision making, and updates all discussions for the rapid technological developments of the last decade.

Respiratory Tract Infections: Advances in Research and Treatment: 2011 Edition CRC Press

The healthcare industry faces growing concerns over data-and analytics. How do you make use of all of this information? More importantly, how do I better understand the healthcare analytic landscape? Enter "Healthcare Analytics 101: A Comprehensive Guide." Whether you're a seasoned pro or a first-year student, this book will help you better understand the current state of healthcare, the "problem" with all the data, and its uses, types, and categories. It also explores an array of next-gen tools and analytic solutions to age-old problems as well as discusses poignant privacy and security concerns as we look ahead. Topics covered: Moving the Science Forward Traditional vs. Non-Traditional Data Claims Data EHRs, Registries & Surveys Social Determinants Consumer Data Platforms & Languages Coded Data Analytic Applications Important Changes Predictive Analytics Benefits of Predictive Analytics Disrupting an Industry Wearables & Other Tech Case Study Privacy & Safe Harbor PII & PHI HIPAA Compliance Privacy & Mental Health Identifying Trends Glossary Building Business Solutions MC Press

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Analytical Solutions for Extremal Space Trajectories

Springer Science & Business Media

Become an expert who can use window functions to solve T-SQL query problems. Replace slow cursors and self-joins with queries that are easy to write and perform better. This new edition provides expanded examples, including a chapter from the world of sports, and covers the latest performance enhancements through SQL Server 2019. Window functions are useful in analytics and business intelligence reporting. They came into full blossom with SQL Server 2012, yet they are not as well known and used as often as they ought to be. This group of functions is one of the most notable developments in SQL, and this book shows how every developer and DBA can benefit from their expressive power in solving day-to-day business problems. Once you begin using window functions, such as ROW_NUMBER and LAG, you will discover many ways to use them. You will approach SQL Server queries in a different way, thinking about sets of data instead of individual rows. Your queries will run faster, be easier to write, and easier to deconstruct, maintain, and enhance in the future. Just knowing and using these functions is not enough. You also need to understand how to tune the queries. Expert T-SQL Window Functions in SQL Server clearly explains how to get the best performance. The book also covers the rare cases when older techniques are the best bet. What You Will Learn Solve complex query problems without cumbersome self-joins that run slowly and are difficult to read Create sliding windows in a result set for computing such as running totals and moving averages Return aggregate and detail data simultaneously from the same SELECT statement Compute lag and lead and other values that access data from multiple rows in a result set Understand the OVER clause syntax and how to control the window Avoid framing errors that can lead to unexpected results Who This Book Is For Anyone who writes T-SQL queries, including database administrators, developers, business analysts, and data scientists. Before reading this book, you should understand how to join tables, write WHERE clauses, and build aggregate queries.

Handbook of Healthcare Analytics Morgan Kaufmann

There is a misconception in business that the only data that matters is BIG data, and that elaborate tools and data scientists are required to extract any practical information. However, nothing could be further from the truth. If you feel that you can't understand how to read, let alone implement, these complex software programs that crunch the data and spit out more data, that will no longer be a problem! Authors and analytics experts Piyanka Jain and Puneet Sharma demystify the process of business analytics and demonstrate how professionals at any level can take the information at their disposal and in only five simple steps--using only Excel as a tool--make the decision necessary to increase revenue, decrease costs, improve product, or whatever else is being asked of them at that time. In Behind Every Good Decision, you will learn how to: Clarify the business question Lay out a hypothesis-

driven plan Pull relevant data Convert it to insights Make decisions that make an impact Packed with examples and exercises, this refreshingly accessible book explains the four fundamental analytic techniques that can help solve a surprising 80 percent of all business problems. It doesn't take a numbers person to know that is a formula you need!

Analytics in Healthcare and the Life Sciences Technics Publications

Taking a management level look at the fundamental shift of information technology in the workplace, this discussion reassesses methods of better decision making in the business world. Considering the new economics, globalization, and rapidly evolving information technology, that current business leaders must take into account while making decisions, this overview of business analytics provides information on business intelligence information, infrastructure, and performance management. This guide also highlights the concepts behind IBM's "Smarter Planet" concept, which applies business intelligence technology to infrastructures that directly affect people's lives, such as manufacturing, utilities, finance, and health care.

The Data and Analytics Playbook AMACOM

We promise that this book will go a long way to kindle your imagination on certain chosen topics of analytics. For the aspiring or budding data scientists, this will provide a healthy platform to think, debate, disagree and finally learn the message each topic has to convey. At times the authors have skillfully crafted out an intersection between analytics and philosophy too. This is a first-hand perspective of how analytics solutions are designed and carried out in a simple language. We could have as well named the book 'Analytics Story Time'.