

The Statistical Sleuth Answers

Building Better Models with JMP® Pro provides an example-based introduction to business analytics, with a proven process that guides you in the application of modeling tools and concepts. It gives you the "what, why, and how" of using JMP® Pro for building and applying analytic models. This book is designed for business analysts, managers, and practitioners who may not have a solid statistical background, but need to be able to readily apply analytic methods to solve business problems. In addition, this book will greatly benefit faculty members who teach any of the following subjects at the lower to upper graduate level: predictive modeling, data mining, and business analytics. Novice to advanced users in business statistics, business analytics, and predictive modeling will find that it provides a peek inside the black box of algorithms and the methods used. Topics include: regression, logistic regression, classification and regression trees, neural networks, model cross-validation, model comparison and selection, and data reduction techniques. Full of rich examples, Building Better Models with JMP Pro is an applied book on business analytics and modeling that introduces a simple methodology for managing and executing analytics projects. No prior experience with JMP is needed. Make more informed decisions from your data using this newest JMP book.

"Comprising more than 500 entries, the Encyclopedia of Research Design explains how to make decisions about research design, undertake research projects in an ethical manner, interpret and draw valid inferences from data, and evaluate experiment design strategies and results. Two additional features carry this encyclopedia far above other works in the field: bibliographic entries devoted to significant

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articles in the history of research design and reviews of contemporary tools, such as software and statistical procedures, used to analyze results. It covers the spectrum of research design strategies, from material presented in introductory classes to topics necessary in graduate research; it addresses cross- and multidisciplinary research needs, with many examples drawn from the social and behavioral sciences, neurosciences, and biomedical and life sciences; it provides summaries of advantages and disadvantages of often-used strategies; and it uses hundreds of sample tables, figures, and equations based on real-life cases."--Publisher's description.

This manual contains fully worked-out solutions to all of the odd-numbered exercises in the text, giving students a way to check their answers and ensure that they took the correct steps to arrive at an answer

The second edition of a bestselling textbook, *Using R for Introductory Statistics* guides students through the basics of R, helping them overcome the sometimes steep learning curve. The author does this by breaking the material down into small, task-oriented steps. The second edition maintains the features that made the first edition so popular, while updating data, examples, and changes to R in line with the current version. See *What's New in the Second Edition*: Increased emphasis on more idiomatic R provides a grounding in the functionality of base R. Discussions of the use of RStudio helps new R users avoid as many pitfalls as possible. Use of knitr package makes code easier to read and therefore easier to reason about. Additional information on computer-intensive approaches motivates the traditional approach. Updated examples and data make the information current and topical. The book has an accompanying package, *UsingR*, available from CRAN, R's repository of user-contributed packages. The package contains the data sets

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mentioned in the text (`data(package="UsingR")`), answers to selected problems (`answers()`), a few demonstrations (`demo()`), the errata (`errata()`), and sample code from the text. The topics of this text line up closely with traditional teaching progression; however, the book also highlights computer-intensive approaches to motivate the more traditional approach. The authors emphasize realistic data and examples and rely on visualization techniques to gather insight. They introduce statistics and R seamlessly, giving students the tools they need to use R and the information they need to navigate the sometimes complex world of statistical computing.

Now that people are aware that data can make the difference in an election or a business model, data science as an occupation is gaining ground. But how can you get started working in a wide-ranging, interdisciplinary field that's so clouded in hype? This insightful book, based on Columbia University's Introduction to Data Science class, tells you what you need to know. In many of these chapter-long lectures, data scientists from companies such as Google, Microsoft, and eBay share new algorithms, methods, and models by presenting case studies and the code they use. If you're familiar with linear algebra, probability, and statistics, and have programming experience, this book is an ideal introduction to data science. Topics include: Statistical inference, exploratory data analysis, and the data science process Algorithms Spam filters, Naive Bayes, and data wrangling Logistic regression Financial modeling Recommendation engines and causality Data visualization Social networks and data journalism Data engineering, MapReduce, Pregel, and Hadoop Doing Data Science is collaboration between course instructor Rachel Schutt, Senior VP of Data Science at News Corp, and data science consultant Cathy O'Neil, a senior data scientist at Johnson

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Research Labs, who attended and blogged about the course. THE STATISTICAL SLEUTH: A COURSE IN METHODS OF DATA ANALYSIS, Third Edition offers an appealing treatment of general statistical methods that takes full advantage of the computer, both as a computational and an analytical tool. The material is independent of any specific software package, and prominently treats modeling and interpretation in a way that goes beyond routine patterns. The book focuses on a serious analysis of real case studies, strategies and tools of modern statistical data analysis, the interplay of statistics and scientific learning, and the communication of results. With interesting examples, real data, and a variety of exercise types (conceptual, computational, and data problems), the authors get students excited about statistics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The first medical specialty selection guide written by residents for students! Provides an inside look at the issues surrounding medical specialty selection, blending first-hand knowledge with useful facts and statistics, such as salary information, employment data, and match statistics. Focuses on all the major specialties and features firsthand portrayals of each by current residents. Also includes a guide to personality characteristics that are predominate with practitioners of each specialty. "A terrific mixture of objective information as well as factual data make this book an easy, informative, and interesting read." --Review from a 4th year Medical Student

As this bestseller predicted, Trump has only grown more erratic and dangerous as the pressures on him mount. This new edition includes new essays bringing the book up to date—because this is still not normal. Originally released in fall 2017, The Dangerous Case of Donald Trump was a runaway

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bestseller. Alarmed Americans and international onlookers wanted to know: What is wrong with him? That question still plagues us. The Trump administration has proven as chaotic and destructive as its opponents feared, and the man at the center of it all remains a cipher. Constrained by the APA's "Goldwater rule," which inhibits mental health professionals from diagnosing public figures they have not personally examined, many of those qualified to weigh in on the issue have shied away from discussing it at all. The public has thus been left to wonder whether he is mad, bad, or both. The prestigious mental health experts who have contributed to the revised and updated version of *The Dangerous Case of Donald Trump* argue that their moral and civic "duty to warn" supersedes professional neutrality. Whatever affects him, affects the nation: From the trauma people have experienced under the Trump administration to the cult-like characteristics of his followers, he has created unprecedented mental health consequences across our nation and beyond. With eight new essays (about one hundred pages of new material), this edition will cover the dangerous ramifications of Trump's unnatural state. It's not all in our heads. It's in his.

Integrating Analyses in Mixed Methods Research goes beyond mixed methods research design and data collection, providing a pragmatic discussion of the challenges of effectively integrating data to facilitate a more comprehensive and rigorous level of analysis. Showcasing a range of strategies for integrating different sources and forms of data as well as different approaches in analysis, it helps you plan, conduct, and disseminate complex analyses with confidence. Key techniques include: Building an integrative framework Analysing sequential,

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complementary and comparative data Identifying patterns and contrasts in linked data Categorizing, counting, and blending mixed data Managing dissonance and divergence Transforming analysis into warranted assertions With clear steps that can be tailored to any project, this book is perfect for students and researchers undertaking their own mixed methods research.

Prepare for exams and succeed in your statistics course with this comprehensive solutions manual! Featuring worked out-solutions to the problems in THE STATISTICAL SLEUTH: A COURSE IN METHODS OF DATA ANALYSIS, 2nd Edition, this manual shows you how to approach and solve problems using the same step-by-step explanations found in your textbook examples.

This book presents three distinct pillars for analysis, design, and planning: urban water cycle and variability as the state of water being; landscape architecture as the medium for built-by-design; and total systems as the planning approach. The increasing demand for water and urban and industrial expansions have caused myriad environmental, social, economic, and political predicaments. More frequent and severe floods and droughts have changed the resiliency and ability of water infrastructure systems to operate and provide services to the public. These concerns and issues have also changed the way we plan and manage our

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water resources. Focusing on urban challenges and contexts, the book provides foundational information regarding water science and engineering while also examining topics relating to urban stormwater, water supply, and wastewater infrastructures. It also addresses critical emerging issues such as simulation and economic modeling, flood resiliency, environmental visualization, satellite data applications, and digital data model (DEM) advancements. Features: Explores various theoretical, practical, and real-world applications of system analysis, design, and planning of urban water infrastructures Discusses hydrology, hydraulics, and basic laws of water flow movement through natural and constructed environments Describes a wide range of novel topics ranging from water assets, water economics, systems analysis, risk, reliability, and disaster management Examines the details of hydrologic and hydrodynamic modeling and simulation of conceptual and data-driven models Delineates flood resiliency, environmental visualization, pattern recognition, and machine learning attributes Explores a compilation of tools and emerging techniques that elevate the reader to a higher plateau in water and environmental systems management Water Systems Analysis, Design, and Planning: Urban Infrastructure serves as a useful resource for advanced undergraduate and graduate students taking courses in the areas of water

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resources and systems analysis, as well as practicing engineers and landscape professionals. Longlisted for the National Book Award New York Times Bestseller A former Wall Street quant sounds an alarm on the mathematical models that pervade modern life -- and threaten to rip apart our social fabric We live in the age of the algorithm. Increasingly, the decisions that affect our lives--where we go to school, whether we get a car loan, how much we pay for health insurance--are being made not by humans, but by mathematical models. In theory, this should lead to greater fairness: Everyone is judged according to the same rules, and bias is eliminated. But as Cathy O'Neil reveals in this urgent and necessary book, the opposite is true. The models being used today are opaque, unregulated, and uncontestable, even when they're wrong. Most troubling, they reinforce discrimination: If a poor student can't get a loan because a lending model deems him too risky (by virtue of his zip code), he's then cut off from the kind of education that could pull him out of poverty, and a vicious spiral ensues. Models are propping up the lucky and punishing the downtrodden, creating a "toxic cocktail for democracy." Welcome to the dark side of Big Data. Tracing the arc of a person's life, O'Neil exposes the black box models that shape our future, both as individuals and as a society. These "weapons of math destruction" score teachers and

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students, sort r sum s, grant (or deny) loans, evaluate workers, target voters, set parole, and monitor our health. O'Neil calls on modelers to take more responsibility for their algorithms and on policy makers to regulate their use. But in the end, it's up to us to become more savvy about the models that govern our lives. This important book empowers us to ask the tough questions, uncover the truth, and demand change. -- Longlist for National Book Award (Non-Fiction) -- Goodreads, semi-finalist for the 2016 Goodreads Choice Awards (Science and Technology) -- Kirkus, Best Books of 2016 -- New York Times, 100 Notable Books of 2016 (Non-Fiction) -- The Guardian, Best Books of 2016 -- WBUR's "On Point," Best Books of 2016: Staff Picks -- Boston Globe, Best Books of 2016, Non-Fiction

This book builds theoretical statistics from the first principles of probability theory. Starting from the basics of probability, the authors develop the theory of statistical inference using techniques, definitions, and concepts that are statistical and are natural extensions and consequences of previous concepts. Intended for first-year graduate students, this book can be used for students majoring in statistics who have a solid mathematics background. It can also be used in a way that stresses the more practical uses of statistical theory, being more concerned with understanding basic statistical concepts and deriving reasonable statistical procedures for a variety of

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situations, and less concerned with formal optimality investigations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A clear and concise introduction and reference for anyone new to the subject of statistics.

Introduction to Quantitative Research Methods is a student-friendly introduction to quantitative research methods and basic statistics. It uses a detective theme throughout the text and in multimedia courseware to show how quantitative methods have been used to solve real-life problems. The book focuses on principles and techniques that are appropriate to introductory level courses in media, psychology and sociology. Examples and illustrations are drawn from historical and contemporary research in the social sciences. The multimedia courseware provides tutorial work on sampling, basic statistics, and techniques for seeking information from databases and other sources. The statistics modules can be used as either part of a detective games or directly in teaching and learning. Brief video lessons in SPSS, using real datasets, are also a feature of the CD-ROM. Why would you choose Introduction to Quantitative Research Methods - It is theoretical, providing a concise overview of issues of quantitative research. - It is practical, providing case

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studies that exemplify the different ways of research is conducted in the social sciences (ranging from psychology to sociology, politics and media). - It is educational, providing practical vignettes, and chapter highlights for revision. - It is integrative, producing a typology of different ways of conducting quantitative research methods. - It is international, providing case studies from a range of countries. - It is innovative, providing multimedia tutorials on generic research and statistical skills. - It is clear, concise and accessible.

Levay analyzes representations of the criminal in British and American modernism from the late nineteenth century to the 1950s.

The fun and easy way to get down to business with statistics Stymied by statistics? No fear? this friendly guide offers clear, practical explanations of statistical ideas, techniques, formulas, and calculations, with lots of examples that show you how these concepts apply to your everyday life. Statistics For Dummies shows you how to interpret and critique graphs and charts, determine the odds with probability, guesstimate with confidence using confidence intervals, set up and carry out a hypothesis test, compute statistical formulas, and more. Tracks to a typical first semester statistics course Updated examples resonate with today's students Explanations mirror teaching methods and classroom protocol Packed with practical advice and

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real-world problems, *Statistics For Dummies* gives you everything you need to analyze and interpret data for improved classroom or on-the-job performance.

This book joins four papers prepared in the framework of the Egypt inequality study financed by the World Bank. The first paper prepared by Sherine Al-Shawarby reviews the studies on inequality in Egypt since the 1950s with the double objective of illustrating the importance attributed to inequality through time and of presenting and compare the main published statistics on inequality. To our knowledge, this is the first time that such a comprehensive review is carried. The second paper prepared by Branko Milanovic turns to the global and spatial dimensions of inequality. The objective here is to put Egypt inequality in the global context and better understand the origin and size of spatial inequalities within Egypt using different forms of measurement across regions and urban and rural areas. The Egyptian society remains deeply divided across space and in terms of welfare and this study unveils some of the hidden features of this inequality. The third paper prepared by Paolo Verme studies facts and perceptions of inequality during the period 2000-2009, the period that preceded the Egyptian revolution. The objective of this part is to provide some initial elements that could explain the apparent mismatch between inequality measured

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with household surveys and inequality aversion measured by values surveys. No such study has been carried out before in the Middle-East and North-Africa (MENA) region and this seemed a particular important and timely topic to address in the light of the unfolding developments in the Arab region. The fourth paper prepared by Sahar El Tawila, May Gadallah and Enas Ali A. El-Majeed assesses the state of poverty and inequality among the poorest villages of Egypt. The paper attempts to explain the level of inequality in an effort to disentangle those factors that derive from household abilities from those factors that derive from local opportunities. This is the first time that such study is conducted in Egypt. The book should be of interest to any observer of the political and economic evolution of the Arab region in the past few years and to poverty and inequality specialists that wish to have a deeper understanding of the distribution of incomes in Egypt and other countries in the MENA region.

A New York Times Notable Book of 2020
A Bloomberg Best Non-Fiction Book of 2020
A Behavioral Scientist Notable Book of 2020
A Human Behavior & Evolution Society Must-Read
A Popular Evolution Book of 2020
A bold, epic account of how the co-evolution of psychology and culture created the peculiar Western mind that has profoundly shaped the modern world. Perhaps you are WEIRD: raised in a society that is Western, Educated,

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Industrialized, Rich, and Democratic. If so, you're rather psychologically peculiar. Unlike much of the world today, and most people who have ever lived, WEIRD people are highly individualistic, self-obsessed, control-oriented, nonconformist, and analytical. They focus on themselves—their attributes, accomplishments, and aspirations—over their relationships and social roles. How did WEIRD populations become so psychologically distinct? What role did these psychological differences play in the industrial revolution and the global expansion of Europe during the last few centuries? In *The WEIRDest People in the World*, Joseph Henrich draws on cutting-edge research in anthropology, psychology, economics, and evolutionary biology to explore these questions and more. He illuminates the origins and evolution of family structures, marriage, and religion, and the profound impact these cultural transformations had on human psychology. Mapping these shifts through ancient history and late antiquity, Henrich reveals that the most fundamental institutions of kinship and marriage changed dramatically under pressure from the Roman Catholic Church. It was these changes that gave rise to the WEIRD psychology that would coevolve with impersonal markets, occupational specialization, and free competition—laying the foundation for the modern world. Provocative and engaging in both its broad scope and its surprising

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details, *The WEIRDest People in the World* explores how culture, institutions, and psychology shape one another, and explains what this means for both our most personal sense of who we are as individuals and also the large-scale social, political, and economic forces that drive human history. Includes black-and-white illustrations.

Provides a fictionalized account of Jemmy Button, a native boy from Tierra del Fuego who was brought to London to be educated and then returned home to his island.

Beyond Multiple Linear Regression: Applied Generalized Linear Models and Multilevel Models in R is designed for undergraduate students who have successfully completed a multiple linear regression course, helping them develop an expanded modeling toolkit that includes non-normal responses and correlated structure. Even though there is no mathematical prerequisite, the authors still introduce fairly sophisticated topics such as likelihood theory, zero-inflated Poisson, and parametric bootstrapping in an intuitive and applied manner. The case studies and exercises feature real data and real research questions; thus, most of the data in the textbook comes from collaborative research conducted by the authors and their students, or from student projects. Every chapter features a variety of conceptual exercises, guided exercises, and open-ended exercises using real data. After working through this

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material, students will develop an expanded toolkit and a greater appreciation for the wider world of data and statistical modeling. A solutions manual for all exercises is available to qualified instructors at the book's website at www.routledge.com, and data sets and Rmd files for all case studies and exercises are available at the authors' GitHub repo (<https://github.com/proback/BeyondMLR>)

THE BASIS FOR THE MAJOR 6-PART HBO®

DOCUMENTARY SERIES #1 NEW YORK TIMES

BESTSELLER A BEST BOOK OF THE YEAR:

Washington Post | Maureen Corrigan, NPR | Paste |

Seattle Times | Entertainment Weekly | Esquire |

Slate | BuzzFeed | Jezebel | Philadelphia Inquirer |

Publishers Weekly | Kirkus Reviews | Library Journal

| Bustle Winner of the Goodreads Choice Awards for

Nonfiction | Anthony Award Winner | SCIBA Book

Award Winner | Finalist for the Edgar Award for Best

Fact Crime | Longlisted for the Carnegie Medal for

Excellence The haunting true story of the elusive

serial rapist turned murderer who terrorized

California during the 70s and 80s, and of the gifted

journalist who died tragically while investigating the

case—which was solved in April 2018. The haunting

true story of the elusive serial rapist turned murderer

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and of the gifted journalist who died tragically while

investigating the case—which was solved in April

2018. Introduction by Gillian Flynn • Afterword by

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Patton Oswalt “A brilliant genre-buster.... Propulsive, can’t-stop-now reading.” —Stephen King For more than ten years, a mysterious and violent predator committed fifty sexual assaults in Northern California before moving south, where he perpetrated ten sadistic murders. Then he disappeared, eluding capture by multiple police forces and some of the best detectives in the area. Three decades later, Michelle McNamara, a true crime journalist who created the popular website TrueCrimeDiary.com, was determined to find the violent psychopath she called “the Golden State Killer.” Michelle pored over police reports, interviewed victims, and embedded herself in the online communities that were as obsessed with the case as she was. *I’ll Be Gone in the Dark*—the masterpiece McNamara was writing at the time of her sudden death—offers an atmospheric snapshot of a moment in American history and a chilling account of a criminal mastermind and the wreckage he left behind. It is also a portrait of a woman’s obsession and her unflagging pursuit of the truth. Utterly original and compelling, it has been hailed as a modern true crime classic—one which fulfilled Michelle's dream: helping unmask the Golden State Killer.

The fourth edition of this popular book by Jessica Utts develops statistical literacy and critical thinking through real-world applications, with an emphasis on ideas, not calculations. This text focuses on the key

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concepts that educated citizens need to know about statistics. These ideas are introduced in interesting applied and real contexts, without using an abundance of technicalities and calculations that only serve to confuse students. NEW for Fall 2020 - Turn your students into statistical thinkers with the Statistical Analysis and Learning Tool (SALT). SALT is an easy-to-use data analysis tool created with the intro-level student in mind. It contains dynamic graphics and allows students to manipulate data sets in order to visualize statistics and gain a deeper conceptual understanding about the meaning behind data. SALT is built by Cengage, comes integrated in Cengage WebAssign Statistics courses and available to use standalone. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Tailored to mirror the AP Statistics course, "The Practice of Statistics" became a classroom favorite. This edition incorporates a number of first-time features to help students prepare for the AP exam, plus more simulations and statistical thinking help, and instructions for the TI-89 graphic calculator."

To get the best answer-in business, in life-you have to ask the best possible question. Innovation expert Warren Berger shows that ability is both an art and a science. It may be the most underappreciated tool at our disposal, one we learn to use well in infancy-and then abandon as we grow older.

Critical to learning, innovation, success, even to happiness-

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yet often discouraged in our schools and workplaces-it can unlock new business opportunities and reinvent industries, spark creative insights at many levels, and provide a transformative new outlook on life. It is the ability to question-and to do so deeply, imaginatively, and “beautifully.” In this fascinating exploration of the surprising power of questioning, innovation expert Warren Berger reveals that powerhouse businesses like Google, Nike, and Netflix, as well as hot Silicon Valley startups like Pandora and Airbnb, are fueled by the ability to ask fundamental, game-changing questions. But Berger also shares human stories of people using questioning to solve everyday problems-from “How can I adapt my career in a time of constant change?” to “How can I step back from the daily rush and figure out what really makes me happy?” By showing how to approach questioning with an open, curious mind and a willingness to work through a series of “Why,” “What if,” and “How” queries, Berger offers an inspiring framework of how we can all arrive at better solutions, fresh possibilities, and greater success in business and life.

This book is intended for the statistician or student interested in becoming a statistical consultant, as well as clients who need to understand what is involved in the consulting process. It discusses different consulting environments, provides detailed descriptions of communication skills a consultant must possess, and provides concrete examples and case-studies of varying complexity. Emphasis is placed on the importance of engaging the client's understanding of the purpose and interpretation of statistical procedures. Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to

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processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org.

This book investigates the consequences of redundant state and federal environmental regulations in the United States. Drawing on the most exhaustive statistical analysis of US federal wetland permits ever constructed, the book uncovers the disjointed world of wetland regulation. The author starts by examining the socioeconomic and environmental factors driving individuals to apply for environmental regulatory permits and the regional inconsistencies encountered in federal environmental regulatory program performance. The book goes on to demonstrate that states have more power in federal relationships than scholars often believe and that individual state policies are important even in a time of strong federal governance. Evidence shows that such intergovernmental redundancy serves to increase overall regulatory program effectiveness. This book breaks new ground in the subjects of federalism and environmental regulation by rejecting the traditional approach of picking winners and losers in favour of a nuanced demonstration of how redundancy and collaboration between different levels of governance can make for more effective governmental programs. The book is also innovative in its use of the perspectives of regulated citizens not as a point of judgment, but as a means of introducing a constructive new way of thinking about political and administrative boundaries within a federalist system of governance. The book provides relevant

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context to wider political debates about excessive and duplicative regulatory oversight and will be of interest to Environmental Policy students and administrators.

The Definitive Guide to File System Analysis: Key Concepts and Hands-on Techniques Most digital evidence is stored within the computer's file system, but understanding how file systems work is one of the most technically challenging concepts for a digital investigator because there exists little documentation. Now, security expert Brian Carrier has written the definitive reference for everyone who wants to understand and be able to testify about how file system analysis is performed. Carrier begins with an overview of investigation and computer foundations and then gives an authoritative, comprehensive, and illustrated overview of contemporary volume and file systems: Crucial information for discovering hidden evidence, recovering deleted data, and validating your tools. Along the way, he describes data structures, analyzes example disk images, provides advanced investigation scenarios, and uses today's most valuable open source file system analysis tools—including tools he personally developed. Coverage includes Preserving the digital crime scene and duplicating hard disks for "dead analysis" Identifying hidden data on a disk's Host Protected Area (HPA) Reading source data: Direct versus BIOS access, dead versus live acquisition, error handling, and more Analyzing DOS, Apple, and GPT partitions; BSD disk labels; and Sun Volume Table of Contents using key concepts, data structures, and specific techniques Analyzing the contents of multiple disk volumes, such as RAID and disk spanning Analyzing FAT, NTFS, Ext2, Ext3, UFS1, and UFS2 file systems using key concepts, data structures, and specific techniques Finding evidence: File metadata, recovery of deleted files, data hiding locations, and more Using The Sleuth Kit (TSK), Autopsy Forensic Browser, and related

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open source tools When it comes to file system analysis, no other book offers this much detail or expertise. Whether you're a digital forensics specialist, incident response team member, law enforcement officer, corporate security specialist, or auditor, this book will become an indispensable resource for forensic investigations, no matter what analysis tools you use.

Intended for the one- or two-term algebra-based course in statistical methods, this innovative book takes full advantage of the computer both as a computational and as an analytical tool. The focus is on a serious analysis of real case studies; on strategies and tools of modern statistical data analysis, on the interplay of statistics and scientific learning, and on the communication of results.

BuzzFeed News Senior Reporter Lam Thuy Vo explains how to mine, process, and analyze data from the social web in meaningful ways with the Python programming language. Did fake Twitter accounts help sway a presidential election? What can Facebook and Reddit archives tell us about human behavior? In *Mining Social Media*, senior BuzzFeed reporter Lam Thuy Vo shows you how to use Python and key data analysis tools to find the stories buried in social media.

Whether you're a professional journalist, an academic researcher, or a citizen investigator, you'll learn how to use technical tools to collect and analyze data from social media sources to build compelling, data-driven stories. Learn how to:

- Write Python scripts and use APIs to gather data from the social web
- Download data archives and dig through them for insights
- Inspect HTML downloaded from websites for useful content
- Format, aggregate, sort, and filter your collected data using Google Sheets
- Create data visualizations to illustrate your discoveries
- Perform advanced data analysis using Python, Jupyter Notebooks, and the pandas library
- Apply what you've learned to

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research topics on your own Social media is filled with thousands of hidden stories just waiting to be told. Learn to use the data-sleuthing tools that professionals use to write your own data-driven stories.

Data is bigger, arrives faster, and comes in a variety of formats—and it all needs to be processed at scale for analytics or machine learning. But how can you process such varied workloads efficiently? Enter Apache Spark. Updated to include Spark 3.0, this second edition shows data engineers and data scientists why structure and unification in Spark matters. Specifically, this book explains how to perform simple and complex data analytics and employ machine learning algorithms. Through step-by-step walk-throughs, code snippets, and notebooks, you'll be able to:

- Learn Python, SQL, Scala, or Java high-level Structured APIs
- Understand Spark operations and SQL Engine Inspect, tune, and debug Spark operations with Spark configurations and Spark UI
- Connect to data sources: JSON, Parquet, CSV, Avro, ORC, Hive, S3, or Kafka
- Perform analytics on batch and streaming data using Structured Streaming
- Build reliable data pipelines with open source Delta Lake and Spark
- Develop machine learning pipelines with MLlib and productionize models using MLflow

"Witty, compelling, and just plain fun to read . . ." —Evelyn Lamb, *Scientific American*

The Freakonomics of math—a math-world superstar unveils the hidden beauty and logic of the world and puts its power in our hands

The math we learn in school can seem like a dull set of rules, laid down by the ancients and not to be questioned. In *How Not to Be Wrong*, Jordan Ellenberg shows us how terribly limiting this view is: Math isn't confined to abstract incidents that never occur in real life, but rather touches everything we do—the whole world is shot through with it. Math allows us to see the hidden structures underneath the messy and chaotic surface of our

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world. It's a science of not being wrong, hammered out by centuries of hard work and argument. Armed with the tools of mathematics, we can see through to the true meaning of information we take for granted: How early should you get to the airport? What does "public opinion" really represent? Why do tall parents have shorter children? Who really won Florida in 2000? And how likely are you, really, to develop cancer? How Not to Be Wrong presents the surprising revelations behind all of these questions and many more, using the mathematician's method of analyzing life and exposing the hard-won insights of the academic community to the layman—minus the jargon. Ellenberg chases mathematical threads through a vast range of time and space, from the everyday to the cosmic, encountering, among other things, baseball, Reaganomics, daring lottery schemes, Voltaire, the replicability crisis in psychology, Italian Renaissance painting, artificial languages, the development of non-Euclidean geometry, the coming obesity apocalypse, Antonin Scalia's views on crime and punishment, the psychology of slime molds, what Facebook can and can't figure out about you, and the existence of God. Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need. Math, as Ellenberg says, is "an atomic-powered prosthesis that you attach to your common sense, vastly multiplying its reach and strength." With the tools of mathematics in hand, you can understand the world in a deeper, more meaningful way. How Not to Be Wrong will show you how.

Incorporating a hands-on pedagogical approach, *Nonparametric Statistics for Social and Behavioral Sciences* presents the concepts, principles, and methods used in performing many nonparametric procedures. It also demonstrates practical applications of the most common nonparametric procedures using IBM's SPSS software. This

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text is the only current nonparametric book written specifically for students in the behavioral and social sciences.

Emphasizing sound research designs, appropriate statistical analyses, and accurate interpretations of results, the text: Explains a conceptual framework for each statistical procedure Presents examples of relevant research problems, associated research questions, and hypotheses that precede each procedure Details SPSS paths for conducting various analyses Discusses the interpretations of statistical results and conclusions of the research With minimal coverage of formulas, the book takes a nonmathematical approach to nonparametric data analysis procedures and shows students how they are used in research contexts. Each chapter includes examples, exercises, and SPSS screen shots illustrating steps of the statistical procedures and resulting output.

An Edgar Award finalist for Best Fact Crime, this “impressive...open-eyed investigative inquiry wrapped within a cultural history of rural America” (The Wall Street Journal) shows legendary statistician and baseball writer Bill James applying his analytical acumen to crack an unsolved century-old mystery surrounding one of the deadliest serial killers in American history. Between 1898 and 1912, families across the country were bludgeoned in their sleep with the blunt side of an axe. Some of these cases—like the infamous Villisca, Iowa, murders—received national attention. But most incidents went almost unnoticed outside the communities in which they occurred. Few people believed the crimes were related. And fewer still would realize that all of these families lived within walking distance to a train station. When celebrated true crime expert Bill James first learned about these horrors, he began to investigate others that might fit the same pattern. Applying the same know-how he brings to his legendary baseball analysis, he empirically determined which crimes

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were committed by the same person. Then after sifting through thousands of local newspapers, court transcripts, and public records, he and his daughter Rachel made an astonishing discovery: they learned the true identity of this monstrous criminal and uncovered one of the deadliest serial killers in America. "A suspenseful historical account" (Publishers Weekly, starred review), *The Man from the Train* paints a vivid, psychologically perceptive portrait of America at the dawn of the twentieth century, when crime was regarded as a local problem, and opportunistic private detectives exploited a dysfunctional judicial system. James shows how these cultural factors enabled such an unspeakable series of crimes to occur, and his groundbreaking approach to true crime will convince skeptics, amaze aficionados, and change the way we view criminal history. "A beautifully written and extraordinarily researched narrative... This is no pure whodunit, but rather a how-many-did-he-do" (Buffalo News).

An exploration of the statistical foundations of scientific inference, *The Nature of Scientific Evidence* asks what constitutes scientific evidence and whether scientific evidence can be quantified statistically. Mark Taper, Subhash Lele, and an esteemed group of contributors explore the relationships among hypotheses, models, data, and inference on which scientific progress rests in an attempt to develop a new quantitative framework for evidence. Informed by interdisciplinary discussions among scientists, philosophers, and statisticians, they propose a new "evidential" approach, which may be more in keeping with the scientific method. *The Nature of Scientific Evidence* persuasively argues that all scientists should care more about the fine points of statistical philosophy because therein lies the connection between theory and data. Though the book uses ecology as an exemplary science, the interdisciplinary evaluation of the use

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of statistics in empirical research will be of interest to any reader engaged in the quantification and evaluation of data. Oehlert's text is suitable for either a service course for non-statistics graduate students or for statistics majors. Unlike most texts for the one-term grad/upper level course on experimental design, Oehlert's new book offers a superb balance of both analysis and design, presenting three practical themes to students: • when to use various designs • how to analyze the results • how to recognize various design options Also, unlike other older texts, the book is fully oriented toward the use of statistical software in analyzing experiments.

This book was written to rigorously illustrate the practical application of the projective approach to linear models. To some, this may seem contradictory. I contend that it is possible to be both rigorous and illustrative and that it is possible to use the projective approach in practical applications. Therefore, unlike many other books on linear models, the use of projections and sub spaces does not stop after the general theory. They are used wherever I could figure out how to do it. Solving normal equations and using calculus (outside of maximum likelihood theory) are anathema to me. This is because I do not believe that they contribute to the understanding of linear models. I have similar feelings about the use of side conditions. Such topics are mentioned when appropriate and thenceforward avoided like the plague. On the other side of the coin, I just as strenuously reject teaching linear models with a coordinate free approach. Although Joe Eaton assures me that the issues in complicated problems frequently become clearer when considered free of coordinate systems, my experience is that too many people never make the jump from coordinate free theory back to practical applications. I think that coordinate free theory is better tackled after mastering linear

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models from some other approach. In particular, I think it would be very easy to pick up the coordinate free approach after learning the material in this book. See Eaton (1983) for an excellent exposition of the coordinate free approach.

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