
Naked Statistics Stripping The Dread From Data

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Naked Statistics: Stripping the Dread from the Data W. W. Norton & Company

Demystifies the study of statistics by stripping away the technical details to examine the underlying intuition essential for understanding statistical concepts.

Naked Statistics: Stripping the Dread from the Data W. W. Norton & Company

"Brilliant, funny . . . the best math teacher you never had."—San Francisco Chronicle Once considered tedious, the field of statistics is rapidly evolving into a discipline Hal Varian, chief economist at Google, has actually called "sexy." From batting averages and political polls to game shows and medical research, the real-world application of statistics continues to grow by leaps and bounds. How can we catch schools that cheat on standardized tests? How does Netflix know which movies you'll like? What is causing the rising incidence of autism? As best-selling author Charles Wheelan shows us in *Naked Statistics*, the right data and a few well-chosen statistical tools can help us answer these questions and more. For those who slept through Stats 101, this book is a lifesaver. Wheelan strips away the arcane and technical details and focuses on the underlying

intuition that drives statistical analysis. He clarifies key concepts such as inference, correlation, and regression analysis, reveals how biased or careless parties can manipulate or misrepresent data, and shows us how brilliant and creative researchers are exploiting the valuable data from natural experiments to tackle thorny questions. And in Wheelan's trademark style, there's not a dull page in sight. You'll encounter clever Schlitz Beer marketers leveraging basic probability, an International Sausage Festival illuminating the tenets of the central limit theorem, and a head-scratching choice from the famous game show *Let's Make a Deal*—and you'll come away with insights each time. With the wit, accessibility, and sheer fun that turned *Naked Economics* into a bestseller, Wheelan defies the odds yet again by bringing another essential, formerly unglamorous discipline to life.

Naked Statistics: Stripping the Dread from the Data W. W. Norton

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Naked Economics: Undressing the Dismal Science (Fully Revised and Updated) *W. W. Norton & Company*

Seeks to provide an engaging and comprehensive primer to economics that explains key concepts without technical jargon and using common-sense examples.

Naked Money

A Revealing Look at Our Financial System *W. W. Norton*

"The best-selling author of *Naked Statistics* and *Naked Economics* explores the colorful world of money and banking to answer such questions as how money creation is used to counter financial

crises, why the shared European currency has caused so much trouble and how Bitcoin will impact the future."--NoveList.

Naked Economics: Undressing the Dismal Science *W. W. Norton & Company*

Seeks to provide a genuinely engaging and comprehensive primer to economics that explains key concepts without technical jargon and using common-sense examples. Reprint. 20,000 first printing.

How to Tell the Truth with Statistics

The Art of Learning from Data *Penguin UK*

Statistics has played a leading role in our scientific understanding of the world for centuries, yet we are all familiar with the way statistical claims can be sensationalised, particularly in the media. In the age of big data, as data science becomes established as a discipline, a basic grasp of statistical literacy is more important than ever. In *How to Tell the Truth with Statistics*, David Spiegelhalter guides the reader through the essential principles we need in order to derive knowledge from data. Drawing on real world problems to introduce conceptual issues, he shows us how statistics can help us determine the luckiest passenger on the Titanic, whether serial killer Harold Shipman could have been caught earlier, and if screening for ovarian cancer is beneficial. How many trees are there on the planet? Do busier hospitals have higher survival rates? Why do old men have big ears? Spiegelhalter reveals the answers to these and many other questions - questions that can only be addressed using

statistical science.

Chances Are

The Only Statistic Book You'll Ever Need *Madison Books*

Chances Are is the first book to make statistics accessible to everyone, regardless of how much math you remember from school.

Head First Statistics *"O'Reilly Media, Inc."*

A comprehensive introduction to statistics that teaches the fundamentals with real-life scenarios, and covers histograms, quartiles, probability, Bayes' theorem, predictions, approximations, random samples, and related topics.

10 1/2 Things No Commencement Speaker Has Ever Said

W. W. Norton & Company

Based on the author's 2011 Class Day Speech at Dartmouth College, provides humorous and unconventional advice for graduates of all ages on attaining happiness and success in life.

The Centrist Manifesto *W. W. Norton & Company*

A vision—and detailed road map to power—for a new party that will champion America's rational center. From debt ceiling standoffs to single-digit Congress approval ratings, America's political system has never been more polarized—or paralyzed—than it is today. As best-selling author and public policy expert Charles Wheelan writes, now is the time for a pragmatic Centrist party that will identify and embrace the best

Democratic and Republican ideals, moving us forward on the most urgent issues for our nation. Wheelan—who not only lectures on public policy but practices it as well (he ran unsuccessfully for Congress in 2009)—brings even more than his usual wit and clarity of vision to *The Centrist Manifesto*. He outlines a realistic ground game that could net at least five Centrist senators from New England, the Midwest, and elsewhere. With the power to deny a red or blue Senate majority, committed Centrists could take the first step toward giving voice and power to America's largest, and most rational, voting bloc: the center.

Naked Statistics

Stripping the Dread from the Data *CreateSpace*

This updated and expanded second edition of the *Naked Statistics: Stripping the Dread from the Data* provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career & Business. Feel free to send us your inquiries related to our publications to info@pwpublishers.pw

Levy Processes, Integral Equations, Statistical Physics: Connections and Interactions *Springer Science & Business*

Media

In a number of famous works, M. Kac showed that various methods of probability theory can be fruitfully applied to important problems of analysis. The interconnection between probability and analysis also plays a central role in the present book. However, our approach is mainly based on the application of analysis methods (the method of operator identities, integral equations theory, dual systems, integrable equations) to probability theory (Levy processes, M. Kac's problems, the principle of imperceptibility of the boundary, signal theory). The essential part of the book is dedicated to problems of statistical physics (classical and quantum cases). We consider the corresponding statistical problems (Gibbs-type formulas, non-extensive statistical mechanics, Boltzmann equation) from the game point of view (the game between energy and entropy). One chapter is dedicated to the construction of special examples instead of existence theorems (D. Larson's theorem, Ringrose's hypothesis, the Kadison-Singer and Gohberg-Krein questions). We also investigate the Bezoutiant operator. In this context, we do not make the assumption that the Bezoutiant operator is normally solvable, allowing us to investigate the special classes of the entire functions.

My First Disney Classics Bedtime Storybook *Disney Electronic Content*

Read along with Disney! Bedtime stories are classic, even for the littlest dreamers. Follow along with word-for-word narration in this collection of favorite Disney stories that's perfect for those cuddly moments!

The Rationing: A Novel *W. W. Norton & Company*

Political backstabbing, rank hypocrisy, and dastardly deception reign in this delightfully entertaining political satire, sure to lift one's spirits far above the national stage. America is in trouble—at the mercy of a puzzling pathogen. That ordinarily wouldn't lead to catastrophe, thanks to modern medicine, but there's just one problem: the government supply of Dormigen, the silver bullet of pharmaceuticals, has been depleted just as demand begins to spike. Set in the near future, *The Rationing* centers around a White House struggling to quell the crisis—and control the narrative. Working together, just barely, are a savvy but preoccupied president; a Speaker more interested in jockeying for position—and a potential presidential bid—than attending to the minutiae of disease control; a patriotic majority leader unable to differentiate a virus from a bacterium; a strategist with brilliant analytical abilities but abominable people skills; and, improbably, our narrator, a low-level scientist with the National Institutes of Health who happens to be the world's leading expert in lurking viruses. Little goes according to plan during the three weeks necessary to replenish the stocks of Dormigen. Some Americans will get the life-saving drug and others will not, and nations with their own supply soon offer aid—but for a price. China senses blood and a geopolitical victory, presenting a laundry list of demands that ranges from complete domination of the South China Sea to additional parking spaces at the UN, while India claims it can save the day for the U.S.

Data Science *MIT Press*

A concise introduction to the emerging field of data science,

explaining its evolution, relation to machine learning, current uses, data infrastructure issues, and ethical challenges. The goal of data science is to improve decision making through the analysis of data. Today data science determines the ads we see online, the books and movies that are recommended to us online, which emails are filtered into our spam folders, and even how much we pay for health insurance. This volume in the MIT Press Essential Knowledge series offers a concise introduction to the emerging field of data science, explaining its evolution, current uses, data infrastructure issues, and ethical challenges. It has never been easier for organizations to gather, store, and process data. Use of data science is driven by the rise of big data and social media, the development of high-performance computing, and the emergence of such powerful methods for data analysis and modeling as deep learning. Data science encompasses a set of principles, problem definitions, algorithms, and processes for extracting non-obvious and useful patterns from large datasets. It is closely related to the fields of data mining and machine learning, but broader in scope. This book offers a brief history of the field, introduces fundamental data concepts, and describes the stages in a data science project. It considers data infrastructure and the challenges posed by integrating data from multiple sources, introduces the basics of machine learning, and discusses how to link machine learning expertise with real-world problems. The book also reviews ethical and legal issues, developments in data regulation, and computational approaches to preserving privacy. Finally, it considers the future impact of data science and offers principles for success in data science projects.

Introduction to Public Policy *W. W. Norton*

The first introductory public policy text with a strong economics perspective. A new textbook by Charles Wheelan, author of *Naked Economics*, *Introduction to Public Policy* uses economic principles to demonstrate that sound public policy occurs when unfettered private markets provide the greatest good for the greatest number. Only when it does not do this is government intervention needed.

The Deep Learning Revolution *MIT Press*

How deep learning—from Google Translate to driverless cars to personal cognitive assistants—is changing our lives and transforming every sector of the economy. The deep learning revolution has brought us driverless cars, the greatly improved Google Translate, fluent conversations with Siri and Alexa, and enormous profits from automated trading on the New York Stock Exchange. Deep learning networks can play poker better than professional poker players and defeat a world champion at Go. In this book, Terry Sejnowski explains how deep learning went from being an arcane academic field to a disruptive technology in the information economy. Sejnowski played an important role in the founding of deep learning, as one of a small group of researchers in the 1980s who challenged the prevailing logic-and-symbol based version of AI. The new version of AI Sejnowski and others developed, which became deep learning, is fueled instead by data. Deep networks learn from data in the same way that babies experience the world, starting with fresh eyes and gradually acquiring the skills needed to navigate novel environments. Learning algorithms extract information from raw data;

information can be used to create knowledge; knowledge underlies understanding; understanding leads to wisdom. Someday a driverless car will know the road better than you do and drive with more skill; a deep learning network will diagnose your illness; a personal cognitive assistant will augment your puny human brain. It took nature many millions of years to evolve human intelligence; AI is on a trajectory measured in decades. Sejnowski prepares us for a deep learning future.

Statistics Done Wrong

The Woefully Complete Guide *No Starch Press*

Scientific progress depends on good research, and good research needs good statistics. But statistical analysis is tricky to get right, even for the best and brightest of us. You'd be surprised how many scientists are doing it wrong. *Statistics Done Wrong* is a pithy, essential guide to statistical blunders in modern science that will show you how to keep your research blunder-free. You'll examine embarrassing errors and omissions in recent research, learn about the misconceptions and scientific politics that allow these mistakes to happen, and begin your quest to reform the way you and your peers do statistics. You'll find advice on:

- Asking the right question, designing the right experiment, choosing the right statistical analysis, and sticking to the plan
- How to think about p values, significance, insignificance, confidence intervals, and regression
- Choosing the right sample size and avoiding false positives
- Reporting your analysis and publishing your data and source code
- Procedures to follow, precautions to take, and analytical software that can help

Scientists: Read this concise, powerful guide to help you produce statistically sound research. Statisticians: Give this book to everyone you know. The first step toward statistics done right is *Statistics Done Wrong*.

Introduction to Probability, Second Edition *CRC Press*

Developed from celebrated Harvard statistics lectures, *Introduction to Probability* provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional application areas explored include genetics, medicine, computer science, and information theory. The authors present the material in an accessible style and motivate concepts using real-world examples. Throughout, they use stories to uncover connections between the fundamental distributions in statistics and conditioning to reduce complicated problems to manageable pieces. The book includes many intuitive explanations, diagrams, and practice problems. Each chapter ends with a section showing how to perform relevant simulations and calculations in R, a free statistical software environment. The second edition adds many new examples, exercises, and explanations, to deepen understanding of the ideas, clarify subtle concepts, and respond to feedback from many students and readers. New supplementary online resources have been developed, including animations and interactive visualizations, and the book has been updated to dovetail with these resources. Supplementary material is available on Joseph Blitzstein's website www.

stat110.net. The supplements include: Solutions to selected exercises Additional practice problems Handouts including review material and sample exams Animations and interactive visualizations created in connection with the edX online version of Stat 110. Links to lecture videos available on iTunes U and YouTube There is also a complete instructor's solutions manual available to instructors who require the book for a course.

The Analysis of Biological Data *Macmillan Higher Education*

The Analysis of Biological Data provides students with a practical foundation of statistics for biology students. Every chapter has several biological or medical examples of key concepts, and each example is prefaced by a substantial description of the biological setting. The emphasis on real and interesting examples carries into the problem sets where students have dozens of practice problems based on real data. The third edition features over 200 new examples and problems. These include new calculation practice problems, which guide the student step by step through the methods, and a greater number of examples and topics come from medical and human health research. Every chapter has been carefully edited for even greater clarity and ease of use. All the data sets, R scripts for all worked examples in the book, as well as many other teaching resources, are available to qualified instructors (see below).

Essential Mathematical Methods for the Physical Sciences *Cambridge University Press*

The mathematical methods that physical scientists need for solving substantial problems in their fields of study are set out

clearly and simply in this tutorial-style textbook. Students will develop problem-solving skills through hundreds of worked examples, self-test questions and homework problems. Each chapter concludes with a summary of the main procedures and results and all assumed prior knowledge is summarized in one of the appendices. Over 300 worked examples show how to use the techniques and around 100 self-test questions in the footnotes act as checkpoints to build student confidence. Nearly 400 end-of-chapter problems combine ideas from the chapter to reinforce the concepts. Hints and outline answers to the odd-numbered problems are given at the end of each chapter, with fully-worked solutions to these problems given in the accompanying Student Solutions Manual. Fully-worked solutions to all problems, password-protected for instructors, are available at www.cambridge.org/essential.

Introduction to Probability *CRC Press*

Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional

How to Lie with Statistics *W. W. Norton & Company*

If you want to outsmart a crook, learn his tricks—Darrell Huff explains exactly how in the classic How to Lie with Statistics. From distorted graphs and biased samples to misleading averages, there are countless statistical dodges that lend cover

to anyone with an ax to grind or a product to sell. With abundant examples and illustrations, Darrell Huff's lively and engaging primer clarifies the basic principles of statistics and explains how they're used to present information in honest and not-so-honest ways. Now even more indispensable in our data-driven world than it was when first published, *How to Lie with Statistics* is the book that generations of readers have relied on to keep from being fooled.

We Came, We Saw, We Left: A Family Gap Year *W. W. Norton & Company*

Charlie Wheelan and his family do what others dream of: They take a year off to travel the world. This is their story. What would happen if you quit your life for a year? In a pre-COVID-19 world, the Wheelan family decided to find out; leaving behind work, school, and even the family dogs to travel the world on a modest budget. Equal parts "how-to" and "how-not-to"—and with an eye toward a world emerging from a pandemic—*We Came, We Saw, We Left* is the insightful and often hilarious account of one family's gap-year experiment. Wheelan paints a picture of adventure and connectivity, juggling themes of local politics, global economics, and family dynamics while exploring answers to questions like: How do you sneak out of a Peruvian town that has been barricaded by the local army? And where can you get treatment for a flesh-eating bacteria your daughter picked up two continents ago? From Colombia to Cambodia, *We Came, We Saw, We Left* chronicles nine months across six continents with three teenagers. What could go wrong?

Write for Your Life

A Guide to Clear and Purposeful Writing (and Presentations) *W. W. Norton*

Charles Wheelan has spent decades mastering effective communication skills in his work as a writer, college professor, journalist, speechwriter, political candidate, and public speaker. In *Write for Your Life*, he shares his best tips. He covers how to organize and present information, why it's necessary to adapt one's tone to different audiences, and when to use summaries, sidebars, bullet points, and other tools for making information more digestible. He explores the truth behind popular clichés like "Show don't tell" and "Kill your darlings," and discusses the proper use and attribution of quotations from secondary sources. Throughout, the book is leavened with memorable anecdotes from leading magazine and newspaper writers and public figures such as Winston Churchill and Elena Kagan, as well as a diverse array of the best communicators from the worlds of culture, sports, and politics. *Write for Your Life* is an essential guide for anyone needing to get their ideas across whether in a memo, report, presentation, fundraising letter, or speech.

The Art of Data Science

"This book describes the process of analyzing data. The authors have extensive experience both managing data analysts and conducting their own data analyses, and this book is a distillation of their experience in a format that is applicable to both practitioners and managers in data science."--Leanpub.com.

Practical Statistics for Data Scientists

50 Essential Concepts *"O'Reilly Media, Inc."*

Statistical methods are a key part of data science, yet very few data scientists have any formal statistics training. Courses and books on basic statistics rarely cover the topic from a data science perspective. This practical guide explains how to apply various statistical methods to data science, tells you how to avoid their misuse, and gives you advice on what's important and what's not. Many data science resources incorporate statistical methods but lack a deeper statistical perspective. If you're familiar with the R programming language, and have some exposure to statistics, this quick reference bridges the gap in an accessible, readable format. With this book, you'll learn: Why exploratory data analysis is a key preliminary step in data science How random sampling can reduce bias and yield a higher quality dataset, even with big data How the principles of experimental design yield definitive answers to questions How to use regression to estimate outcomes and detect anomalies Key classification techniques for predicting which categories a record belongs to Statistical machine learning methods that "learn" from data Unsupervised learning methods for extracting meaning from unlabeled data

How Charts Lie: Getting Smarter about Visual Information

W. W. Norton & Company

A leading data visualization expert explores the negative—and positive—influences that charts have on our perception of truth. We've all heard that a picture is worth a thousand words, but

what if we don't understand what we're looking at? Social media has made charts, infographics, and diagrams ubiquitous—and easier to share than ever. We associate charts with science and reason; the flashy visuals are both appealing and persuasive. Pie charts, maps, bar and line graphs, and scatter plots (to name a few) can better inform us, revealing patterns and trends hidden behind the numbers we encounter in our lives. In short, good charts make us smarter—if we know how to read them. However, they can also lead us astray. Charts lie in a variety of ways—displaying incomplete or inaccurate data, suggesting misleading patterns, and concealing uncertainty—or are frequently misunderstood, such as the confusing cone of uncertainty maps shown on TV every hurricane season. To make matters worse, many of us are ill-equipped to interpret the visuals that politicians, journalists, advertisers, and even our employers present each day, enabling bad actors to easily manipulate them to promote their own agendas. In *How Charts Lie*, data visualization expert Alberto Cairo teaches us to not only spot the lies in deceptive visuals, but also to take advantage of good ones to understand complex stories. Public conversations are increasingly propelled by numbers, and to make sense of them we must be able to decode and use visual information. By examining contemporary examples ranging from election-result infographics to global GDP maps and box-office record charts, *How Charts Lie* demystifies an essential new literacy, one that will make us better equipped to navigate our data-driven world.

Biostatistics For Dummies *John Wiley & Sons*

Score your highest in biostatistics *Biostatistics* is a required

course for students of medicine, epidemiology, forestry, agriculture, bioinformatics, and public health. In years past this course has been mainly a graduate-level requirement; however its application is growing and course offerings at the undergraduate level are exploding. *Biostatistics For Dummies* is an excellent resource for those taking a course, as well as for those in need of a handy reference to this complex material. Biostatisticians—analysts of biological data—are charged with finding answers to some of the world's most pressing health questions: how safe or effective are drugs hitting the market today? What causes autism? What are the risk factors for cardiovascular disease? Are those risk factors different for men and women or different ethnic groups? *Biostatistics For Dummies* examines these and other questions associated with the study of biostatistics. Provides plain-English explanations of techniques and clinical examples to help Serves as an excellent course supplement for those struggling with the complexities of the biostatistics Tracks to a typical, introductory biostatistics course *Biostatistics For Dummies* is an excellent resource for anyone looking to succeed in this difficult course.

Applied Predictive Modeling *Springer Science & Business Media*

Applied Predictive Modeling covers the overall predictive modeling process, beginning with the crucial steps of data preprocessing, data splitting and foundations of model tuning. The text then provides intuitive explanations of numerous common and modern regression and classification techniques, always with an emphasis on illustrating and solving real data

problems. The text illustrates all parts of the modeling process through many hands-on, real-life examples, and every chapter contains extensive R code for each step of the process. This multi-purpose text can be used as an introduction to predictive models and the overall modeling process, a practitioner's reference handbook, or as a text for advanced undergraduate or graduate level predictive modeling courses. To that end, each chapter contains problem sets to help solidify the covered concepts and uses data available in the book's R package. This text is intended for a broad audience as both an introduction to predictive models as well as a guide to applying them. Non-mathematical readers will appreciate the intuitive explanations of the techniques while an emphasis on problem-solving with real data across a wide variety of applications will aid practitioners who wish to extend their expertise. Readers should have knowledge of basic statistical ideas, such as correlation and linear regression analysis. While the text is biased against complex equations, a mathematical background is needed for advanced topics.

The Assault on Intelligence

American National Security in an Age of Lies *Penguin*

A blistering critique of the forces threatening the American intelligence community, beginning with the President of the United States himself, in a time when that community's work has never been harder or more important In the face of a President who lobs accusations without facts, evidence, or logic, truth tellers are under attack. Meanwhile, the world order teeters on

the brink. Experience and expertise, devotion to facts, humility in the face of complexity, and respect for ideas seem more important, and more endangered, than they've ever been. American Intelligence--the ultimate truth teller--has a responsibility in a post-truth world beyond merely warning of external dangers, and in *The Assault on Intelligence*, General Michael Hayden, former CIA director, takes up that urgent work with profound passion, insight and authority. It is a sobering vision. The American intelligence community is more at risk than commonly understood. Our democracy's core structures are under great stress. Many of the premises on which we have based our understanding of governance are now challenged, eroded, or simply gone. And in the face of overwhelming evidence from the intelligence community that the Russians are, by all acceptable standards of cyber conflict, in a state of outright war against us, we have a President in office who chooses not to lead a strong response, but instead to shoot the messenger. There are fundamental changes afoot in the world and in this country. *The Assault on Intelligence* shows us what they are, reveals how crippled we've become in our capacity to address them, and points toward a series of effective responses. Because when we lose our intelligence, literally and figuratively, democracy dies.

The Statistical Analysis of Experimental Data *Courier Corporation*

First half of book presents fundamental mathematical definitions, concepts, and facts while remaining half deals with statistics primarily as an interpretive tool. Well-written text, numerous

worked examples with step-by-step presentation. Includes 116 tables.

The Model Thinker

What You Need to Know to Make Data Work for You *Basic Books*

Work with data like a pro using this guide that breaks down how to organize, apply, and most importantly, understand what you are analyzing in order to become a true data ninja. From the stock market to genomics laboratories, census figures to marketing email blasts, we are awash with data. But as anyone who has ever opened up a spreadsheet packed with seemingly infinite lines of data knows, numbers aren't enough: we need to know how to make those numbers talk. In *The Model Thinker*, social scientist Scott E. Page shows us the mathematical, statistical, and computational models—from linear regression to random walks and far beyond—that can turn anyone into a genius. At the core of the book is Page's "many-model paradigm," which shows the reader how to apply multiple models to organize the data, leading to wiser choices, more accurate predictions, and more robust designs. *The Model Thinker* provides a toolkit for business people, students, scientists, pollsters, and bloggers to make them better, clearer thinkers, able to leverage data and information to their advantage.

What is a P-value Anyway?

34 Stories to Help You Actually Understand Statistics

Pearson College Division

Presents the essential concepts in thirty-four brief stories. Drawing on his experience as a medical researcher, Vickers blends explanations and humor with minimal math, to help readers understand and interpret the statistics they read every day. --from publisher description

A Field Guide to Radiation *Penguin*

A comprehensive and accessible guide to understanding how radiation affects our everyday lives. Nuclear energy, X-rays, radon, cell phones . . . radiation is part of the way we live on a daily basis, and yet the sources and repercussions of our exposure to it remain mysterious. Now Pulitzer Prize-winning journalist Wayne Biddle offers a first-of-its-kind guide to understanding this fundamental aspect of the universe. From fallout to radiation poisoning, alpha particles to cosmic rays, Biddle illuminates the history, meaning, and health implications of one hundred scientific terms in succinct, witty essays. *A Field Guide to Radiation* is an essential, engaging handbook that offers wisdom and common sense for today's increasingly nuclear world.

Bayesian Statistics the Fun Way**Understanding Statistics and Probability with Star Wars, LEGO, and Rubber Ducks** *No Starch Press*

Fun guide to learning Bayesian statistics and probability through unusual and illustrative examples. Probability and statistics are increasingly important in a huge range of professions. But many

people use data in ways they don't even understand, meaning they aren't getting the most from it. *Bayesian Statistics the Fun Way* will change that. This book will give you a complete understanding of Bayesian statistics through simple explanations and un-boring examples. Find out the probability of UFOs landing in your garden, how likely Han Solo is to survive a flight through an asteroid shower, how to win an argument about conspiracy theories, and whether a burglary really was a burglary, to name a few examples. By using these off-the-beaten-track examples, the author actually makes learning statistics fun. And you'll learn real skills, like how to: - How to measure your own level of uncertainty in a conclusion or belief - Calculate Bayes theorem and understand what it's useful for - Find the posterior, likelihood, and prior to check the accuracy of your conclusions - Calculate distributions to see the range of your data - Compare hypotheses and draw reliable conclusions from them Next time you find yourself with a sheaf of survey results and no idea what to do with them, turn to *Bayesian Statistics the Fun Way* to get the most value from your data.

Puzzles and Paradoxes in Economics *Edward Elgar Publishing*

Economics is full of puzzles and paradoxes that often frustrate and challenge everyone, including economists. This engaging book includes fifty puzzles and focuses on three types of paradox. First, everyday observations that appear to belie common sense (such as why some supermarket items sell for more per ounce in larger sizes). Secondly, those paradoxes which have perplexed economists in the past but have since been fairly resolved (such as the diamond-water paradox). Finally, empirical or conceptual

anomalies that remain unresolved and present a challenge to today's economists (such as the voting paradox).

Introduction to Bayesian Statistics *John Wiley & Sons*

"...this edition is useful and effective in teaching Bayesian inference at both elementary and intermediate levels. It is a well-written book on elementary Bayesian inference, and the material is easily accessible. It is both concise and timely, and provides a good collection of overviews and reviews of important tools used in Bayesian statistical methods." There is a strong upsurge in the use of Bayesian methods in applied statistical analysis, yet most introductory statistics texts only present frequentist methods. Bayesian statistics has many important advantages that students should learn about if they are going into fields where statistics will be used. In this third Edition, four newly-added chapters address topics that reflect the rapid advances in the field of Bayesian statistics. The authors continue to provide a Bayesian treatment of introductory statistical topics, such as scientific data gathering, discrete random variables, robust Bayesian methods, and Bayesian approaches to inference for discrete random variables, binomial proportions, Poisson, and normal means, and simple linear regression. In addition, more advanced topics in the field are presented in four new chapters: Bayesian inference for a normal with unknown mean and variance; Bayesian inference for a Multivariate Normal mean vector; Bayesian inference for the

Multiple Linear Regression Model; and Computational Bayesian Statistics including Markov Chain Monte Carlo. The inclusion of these topics will facilitate readers' ability to advance from a minimal understanding of Statistics to the ability to tackle topics in more applied, advanced level books. Minitab macros and R functions are available on the book's related website to assist with chapter exercises. Introduction to Bayesian Statistics, Third Edition also features: Topics including the Joint Likelihood function and inference using independent Jeffreys priors and joint conjugate prior The cutting-edge topic of computational Bayesian Statistics in a new chapter, with a unique focus on Markov Chain Monte Carlo methods Exercises throughout the book that have been updated to reflect new applications and the latest software applications Detailed appendices that guide readers through the use of R and Minitab software for Bayesian analysis and Monte Carlo simulations, with all related macros available on the book's website Introduction to Bayesian Statistics, Third Edition is a textbook for upper-undergraduate or first-year graduate level courses on introductory statistics course with a Bayesian emphasis. It can also be used as a reference work for statisticians who require a working knowledge of Bayesian statistics.

Statistics Workbook For Dummies *John Wiley & Sons*

Presents an introduction to statistics, providing information on analyzing and interpreting data, knowing where to begin solving problems, and more.