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Managers And Sports Enthusiasts Use
Mathematics In Baseball Basketball And Football

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Master business modeling and analysis techniques with Microsoft Excel 2019 and Office 365 and transform data into bottom-line results. Written by award-winning educator Wayne Winston, this hands-on, scenario-focused guide helps you use Excel to ask the right questions and get accurate, actionable answers. New coverage ranges from Power Query/Get

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& Transform to Office 365 Geography and Stock data types. Practice with more than 800 problems, many based on actual challenges faced by working analysts. Solve real business problems with Excel—and build your competitive advantage: Quickly transition from Excel basics to sophisticated analytics Use PowerQuery or Get & Transform to connect, combine, and refine data sources Leverage Office 365's new Geography and Stock data types and six new functions Illuminate insights from geographic and temporal data with 3D Maps Summarize data with pivot tables, descriptive statistics, histograms, and Pareto charts Use Excel trend curves, multiple regression, and exponential smoothing Delve into key

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financial, statistical, and time functions Master all of Excel's great charts Quickly create forecasts from historical time-based data Use Solver to optimize product mix, logistics, work schedules, and investments—and even rate sports teams Run Monte Carlo simulations on stock prices and bidding models Learn about basic probability and Bayes' Theorem Use the Data Model and Power Pivot to effectively build and use relational data sources inside an Excel workbook Automate repetitive analytics tasks by using macros

How math can be used to improve performance and predict outcomes in professional sports Mathletics is a remarkably entertaining book that shows readers how

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to use simple mathematics to analyze a range of statistical and probability-related questions in professional baseball, basketball, and football, and in sports gambling. How does professional baseball evaluate hitters? Is a singles hitter like Wade Boggs more valuable than a power hitter like David Ortiz? Should NFL teams pass or run more often on first downs? Could professional basketball have used statistics to expose the crooked referee Tim Donaghy? Does money buy performance in professional sports? In Mathletics, Wayne Winston describes the mathematical methods that top coaches and managers use to evaluate players and improve team performance, and gives math

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enthusiasts the practical tools they need to enhance their understanding and enjoyment of their favorite sports—and maybe even gain the outside edge to winning bets. Mathletics blends fun math problems with sports stories of actual games, teams, and players, along with personal anecdotes from Winston's work as a sports consultant. Winston uses easy-to-read tables and illustrations to illuminate the techniques and ideas he presents, and all the necessary math concepts—such as arithmetic, basic statistics and probability, and Monte Carlo simulations—are fully explained in the examples. After reading Mathletics, you will understand why baseball teams should almost never bunt, why

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football overtime systems are unfair, why points, rebounds, and assists aren't enough to determine who's the NBA's best player—and much, much more. In a new epilogue, Winston discusses the stats and numerical analysis behind some recent sporting events, such as how the Dallas Mavericks used analytics to become the 2011 NBA champions. MathleticsHow Gamblers, Managers, and Fans Use Mathematics in Sports, Second EditionPrinceton University Press

Almost everyone is familiar with Monte Carlo's association with gambling, and its famous Casino. Many may also have come across the Monte Carlo fallacy, so-called after the Casino's roulette wheel ball

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fell on black 26th times in a row, costing players, who believed that the law of averages made such streaks impossible, millions of dollars. However, the Casino also lends its name to a tool of statistical forecasting, the Monte Carlo simulation, used to model the probability of uncertain outcomes that cannot be easily predicted from mathematical equations. This book provides a detailed account for how aspiring sports bettors can use a Monte Carlo simulation to improve the quality, and hopefully profitability, of their betting, and in doing so unravels the mystery of probability and variance that lies at the heart of all gambling. Praise for Joseph Buchdahl 'Joseph delivers on his promise to familiarise anybody with an interest

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*in betting or investing with the workings of the betting
mind through an abundance of practical examples' -*

*Pinnacle 'Ranks amongst the more important books
on sports betting' - Betfair Pro Trader*

Basic Gambling Mathematics

Mathematics in Games, Sports, and Gambling

*How Gamblers, Managers, and Sports Enthusiasts Use
Mathematics in Baseball, Basketball, and Football*

Sports Analytics

Operations Research

Why Concepts Matter for Great Design

*A Guide for Coaches, Managers, and Other Decision
Makers*

Conquering Risk

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Inform your own analyses by seeing how one of the best data analysts in the world approaches analytics problems
Analytics Stories: How to Make Good Things Happen is a thoughtful, incisive, and entertaining exploration of the application of analytics to real-world problems and situations. Covering fields as diverse as sports, finance, politics, healthcare, and business, Analytics Stories bridges the gap between the oft inscrutable world of

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data analytics and the concrete problems it solves. Distinguished professor and author Wayne L. Winston answers questions like: Was Liverpool over Barcelona the greatest upset in sports history? Was Derek Jeter a great infielder What's wrong with the NFL QB rating? How did Madoff keep his fund going? Does a mutual fund's past performance predict future performance? What caused the Crash of 2008? Can we predict where crimes are likely to

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*occur? Is the lot of the American
worker improving? How can analytics
save the US Republic? The birth of
evidence-based medicine: How did James
Lind know citrus fruits cured scurvy?
How can I objectively compare
hospitals? How can we predict heart
attacks in real time? How does a retail
store know if you're pregnant? How can
I use A/B testing to improve sales from
my website? How can analytics help me
write a hit song? Perfect for anyone*

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with the word "analyst" in their job title, Analytics Stories illuminates the process of applying analytic principles to practical problems and highlights the potential pitfalls that await careless analysts.

Advice on betting sports for beginners to experts.

For more than eighty years, The New Yorker has been home to some of the toughest, wisest, funniest, and most moving sportswriting around. The Only

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Game in Town is a classic collection from a magazine with a deep bench, including such authors as Roger Angell, John Updike, Don DeLillo, and John McPhee. *Hall of Famer Ring Lardner* is here, bemoaning the lowering of standards for baseball achievement—in 1930. John Cheever pens a story about a boy's troubled relationship with his father and the national pastime. From Lance Armstrong to bullfighter Sidney Franklin, from the Chinese Olympics to

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the U.S. Open, the greatest plays and players, past and present, are all covered in The Only Game in Town. At The New Yorker, it's not whether you win or lose—it's how you write about the game. Including: "The Web of the Game" by Roger Angell "Ahab and Nemesis" by A. J. Liebling "Hub Fans Bid Kid Adieu" by John Updike "The Only Games in Town" by Anthony Lane "Race Track" by Bill Barich "A Sense of Where You Are" by John McPhee "El Único

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Matador” by Lillian Ross “*Net Worth*” by
Henry Louis Gates, Jr. “*The Long Ride*”
by Michael Specter “*Born Slippy*” by
John Seabrook “*The Chosen One*” by David
Owen “*Legend of a Sport*” by Alva
Johnston “*A Man-Child in Lotusland*” by
Rebecca Mead “*Dangerous Game*” by Nick
Paumgarten “*The Running Novelist*” by
Haruki Murakami “*Back to the Basement*”
by Nancy Franklin “*Playing Doc’s Games*”
by William Finnegan “*Last of the
Metrozoids*” by Adam Gopnik “*The Sandy*

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Frazier Dream Team” by Ian Frazier
“*Br’er Rabbit Ball*” by Ring Lardner
“*The Greens of Ireland*” by Herbert
Warren Wind “*Tennis Personalities*” by
Martin Amis “*Project Knuckleball*” by
Ben McGrath “*Game Plan*” by Don DeLillo
“*The Art of Failure*” by Malcolm
Gladwell “*Swimming with Sharks*” by
Charles Sprawson “*The National Pastime*”
by John Cheever “*SNO*” by Calvin Trillin
“*Musher*” by Susan Orlean “*Home and
Away*” by Peter Hessler “*No Obstacles*”

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*by Alec Wikinson "A Stud's Life" by
Kevin Conley*

*Many experiments have shown the human
brain generally has very serious
problems dealing with probability and
chance. A greater understanding of
probability can help develop the
intuition necessary to approach risk
with the ability to make more informed
(and better) decisions. The first four
chapters offer the standard content for
an introductory probability course,*

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albeit presented in a much different way and order. The chapters afterward include some discussion of different games, different "ideas" that relate to the law of large numbers, and many more mathematical topics not typically seen in such a book. The use of games is meant to make the book (and course) feel like fun! Since many of the early games discussed are casino games, the study of those games, along with an understanding of the material in later

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chapters, should remind you that gambling is a bad idea; you should think of placing bets in a casino as paying for entertainment. Winning can, obviously, be a fun reward, but should not ever be expected. Changes for the Second Edition: New chapter on Game Theory New chapter on Sports Mathematics The chapter on Blackjack, which was Chapter 4 in the first edition, appears later in the book. Reorganization has been done to improve

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the flow of topics and learning. New sections on Arkham Horror, Uno, and Scrabble have been added. Even more exercises were added! The goal for this textbook is to complement the inquiry-based learning movement. In my mind, concepts and ideas will stick with the reader more when they are motivated in an interesting way. Here, we use questions about various games (not just casino games) to motivate the mathematics, and I would say that the

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*writing emphasizes a "just-in-time"
mathematics approach. Topics are
presented mathematically as questions
about the games themselves are posed.*

Table of Contents Preface 1.

*Mathematics and Probability 2. Roulette
and Craps: Expected Value 3. Counting:
Poker Hands 4. More Dice: Counting and
Combinations, and Statistics 5. Game
Theory: Poker Bluffing and Other Games
6. Probability/Stochastic Matrices:
Board Game Movement 7. Sports*

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Mathematics: Probability Meets

Athletics 8. Blackjack: Previous

Methods Revisited 9. A Mix of Other

Games 10. Betting Systems: Can You Beat

the System? 11. Potpourri: Assorted

Adventures in Probability Appendices

Tables Answers and Selected Solutions

Bibliography Biography Dr. David G.

Taylor is a professor of mathematics

and an associate dean for academic

affairs at Roanoke College in southwest

Virginia. He attended Lebanon Valley

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College for his B.S. in computer science and mathematics and went to the University of Virginia for his Ph.D. While his graduate school focus was on studying infinite dimensional Lie algebras, he started studying the mathematics of various games in order to have a more undergraduate-friendly research agenda. Work done with two Roanoke College students, Heather Cook and Jonathan Marino, appears in this book! Currently he owns over 100

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different board games and enjoys using probability in his decision-making while playing most of those games. In his spare time, he enjoys reading, cooking, coding, playing his board games, and spending time with his six-year-old dog Lilly.

The Only Game in Town

SAS Certification Prep Guide

Dark Data

Scorecasting

Student Solutions Manual for Winston

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***and Venkataraman's Introduction to
Mathematical Programming, Fourth
Edition***

What Can Be Computed?

The Essence of Software

The Science of Rating and Ranking

""Melanie Karsak's Chasing the star garden, the first novel in a stunning new steampunk series, takes the reader on an exciting adventure from the gritty opium dens of gaslamp London to the gem-colored waters of the ancient world"--P. [4] of cover.

Mathematics in Games, Sports, and Gambling: The Games People Play, Second Edition demonstrates how

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discrete probability, statistics, and elementary discrete mathematics are used in games, sports, and gambling situations. With emphasis on mathematical thinking and problem solving, the text draws on numerous examples, questions, and problems to explain the application of mathematical theory to various real-life games. This updated edition of a widely adopted textbook considers a number of popular games and diversions that are mathematically based or can be studied from a mathematical perspective. Requiring only high school algebra, the book is suitable for use as a textbook in seminars, general education courses, or as a supplement in introductory probability courses. New

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In this Edition: Many new exercises, including basic skills exercises More answers in the back of the book Expanded summary exercises, including writing exercises More detailed examples, especially in the early chapters An expansion of the discrete adjustment technique for binomial approximation problems New sections on chessboard puzzles that encourage students to develop graph theory ideas New review material on relations and functions Exercises are included in each section to help students understand the various concepts. The text covers permutations in the two-deck matching game so derangements can be counted. It introduces graphs to find matches when looking at extensions of

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the five-card trick and studies lexicographic orderings and ideas of encoding for card tricks. The text also explores linear and weighted equations in the section on the NFL passer rating formula and presents graphing to show how data can be compared or displayed. For each topic, the author includes exercises based on real games and actual sports data. From the editors of Sports Illustrated Kids comes The Big Book of Who: Basketball, a 128-page collection of basketball's brightest stars, past and present. Profiles, facts and stats will bring the best players in pro basketball history to life with all of the classic touches that Sports Illustrated Kids is famous for--terrific, age-appropriate writing and exciting sports photography.

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Court greats from LeBron James to Michael Jordan, Candace Parker to Allen Iverson, Shaq to Magic Johnson, will be profiled. Written in a fun question and answer format, kids will be able to stump their friends. The Big Book of Who: Basketball is a book young sports fans will return to again and again as a lively, exciting resource.

How the Data Analytics Revolution is Uncovering Footy's Hidden Truths 'Footballistics is more than just good writing. The nature of football continually changes, which means its analysis must also keep pace. This book is for students, thinkers, and theorists of the game.' Ted Hopkins – Carlton premiership player, author, and co-founder of Champion Data.

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Australian Rules football has been described as the most data-rich sport on Earth. Every time and everywhere an AFL side takes to the field, it is shadowed by an army of statisticians and number crunchers. The information they gather has become the sport's new language and currency. ABC journalist James Coventry, author of the acclaimed *Time and Space*, has joined forces with a group of razor-sharp analysts to decipher the data, and to use it to question some of football's long-held truisms. Do umpires really favour the home side? Has goal kicking accuracy deteriorated? Is Geelong the true master of the draft? Are blonds unfairly favoured in Brownlow medal voting? And are Victorians the most passionate

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fans? Through a blend of entertaining storytelling and expert analysis, this book will answer more questions about footy than you ever thought to ask. Praise for Time and Space: 'Brilliant, masterful' – The Guardian 'Arguably one of the most important books yet written on Australian Rules football.' – Inside History 'Should find its way into the hands of every coach.' – AFL Record

Sportswriting from The New Yorker

Sport Business Analytics

How Gamblers, Managers, and Fans Use Mathematics in Sports, Second Edition

Data Science

Fixed Odds Sports Betting

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Smart Sports Betting

Updated for Version 4

Simple Simulations for Aspiring Sports Bettors

An ex-Wall Street trader improved on Moneyball's famed sabermetrics and beat the Vegas odds with his own betting methods. Here is the story of how Joe Peta turned fantasy baseball into a dream come true. Joe Peta turned his back on his Wall Street trading career to pursue an ingenious—and incredibly risky—dream. He would apply his risk-analysis skills to Major League Baseball, and treat the sport like the S&P 500. In Trading Bases, Peta takes us on his journey from the ballpark in San Francisco to the trading floors and baseball bars of New York and the sportsbooks of Las Vegas, telling the

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story of how he created a baseball “hedge fund” with an astounding 41 percent return in his first year. And he explains the unique methods he developed. Along the way, Peta provides insight into the Wall Street crisis he managed to escape: the fragility of the midnineties investment model; the disgraced former CEO of Lehman Brothers, who recruited Peta; and the high-adrenaline atmosphere where million-dollar sports-betting pools were common.

With its understandable explanations of Monte Carlo and step-by-step instructions for Microsoft Excel, Lotus, and @Risk software, this text/software package offers both the instruction and the practice students need to begin solving complex business problems. It is designed for use as the primary

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learning tool in a short business simulation course (for advanced undergraduate and MBA students), or as a supplement to courses in investments, corporate finance, management science, marketing strategy, operations management, and actuarial science.

The Student Solutions Manual includes solutions to selected problems in the book.

Baseball Hacks isn't your typical baseball book--it's a book about how to watch, research, and understand baseball. It's an instruction manual for the free baseball databases. It's a cookbook for baseball research. Every part of this book is designed to teach baseball fans how to do something. In short, it's a how-to book--one that will increase your enjoyment and

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knowledge of the game. So much of the way baseball is played today hinges upon interpreting statistical data. Players are acquired based on their performance in statistical categories that ownership deems most important. Managers make in-game decisions based not on instincts, but on probability - how a particular batter might fare against left-handed pitching, for instance. The goal of this unique book is to show fans all the baseball-related stuff that they can do for free (or close to free). Just as open source projects have made great software freely available, collaborative projects such as Retrosheet and Baseball DataBank have made great data freely available. You can use these data sources to research your favorite players, win your fantasy league, or appreciate the game of

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baseball even more than you do now. Baseball Hacks shows how easy it is to get data, process it, and use it to truly understand baseball. The book lists a number of sources for current and historical baseball data, and explains how to load it into a database for analysis. It then introduces several powerful statistical tools for understanding data and forecasting results. For the uninitiated baseball fan, author Joseph Adler walks readers through the core statistical categories for hitters (batting average, on-base percentage, etc.), pitchers (earned run average, strikeout-to-walk ratio, etc.), and fielders (putouts, errors, etc.). He then extrapolates upon these numbers to examine more advanced data groups like career averages, team stats, season-by-season

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comparisons, and more. Whether you're a mathematician, scientist, or season-ticket holder to your favorite team, Baseball Hacks is sure to have something for you. Advance praise for Baseball Hacks: "Baseball Hacks is the best book ever written for understanding and practicing baseball analytics. A must-read for baseball professionals and enthusiasts alike." -- Ari Kaplan, database consultant to the Montreal Expos, San Diego Padres, and Baltimore Orioles

"The game was born in the 19th century, but the passion for its analysis continues to grow into the 21st. In Baseball Hacks, Joe Adler not only demonstrates that the latest data-mining technologies have useful application to the study of baseball statistics, he also teaches the reader how to do the analysis

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himself, arming the dedicated baseball fan with tools to take his understanding of the game to a higher level." -- Mark E. Johnson, Ph.D., Founder, SportMetrika, Inc. and Baseball Analyst for the 2004 St. Louis Cardinals

Analytics Stories

On the Court with ... Shaquille O'Neal

Trading Bases

Base Programming for Sas9

The Airship Racing Chronicles

Chasing the Star Garden

Essential Statistics for the Behavioral Sciences

A Practical Guide to the Theory of Computation

To be the best on the rink, skaters must spend endless hours

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strengthening and conditioning their bodies off the ice to build strength for the rigors of their performances. Illustrative and technical, yet user-friendly, *Conditioning for Figure Skating* provides detailed coverage of the physical preparation necessary for Preliminary through Senior-Elite skaters while concentrating on all disciplines of figure skating, including singles, pairs, and ice dance. More than 300 photos illustrate proper warm-up drills, flexibility stretches, cooldown routines, strength training exercises, jump and plyometric training programs, and endurance conditioning exercises for on-ice injury prevention. A periodization plan also helps skaters maximize their training potential.

A revolutionary concept-based approach to thinking about, designing, and interacting with software As our dependence

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on technology increases, the design of software matters more than ever before. Why then is so much software flawed? Why hasn't there been a systematic and scalable way to create software that is easy to use, robust, and secure? Examining these issues in depth, *The Essence of Software* introduces a theory of software design that gives new answers to old questions. Daniel Jackson explains that a software system should be viewed as a collection of interacting concepts, breaking the functionality into manageable parts and providing a new framework for thinking about design. Through this radical and original perspective, Jackson lays out a practical and coherent path, accessible to anyone—from strategist and marketer to UX designer, architect, or programmer—for making software that is empowering,

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dependable, and a delight to use. Jackson explores every aspect of concepts—what they are and aren't, how to identify them, how to define them, and more—and offers prescriptive principles and practical tips that can be applied cost-effectively in a wide range of domains. He applies these ideas to contemporary software designs, drawing examples from leading software manufacturers such as Adobe, Apple, Dropbox, Facebook, Google, Microsoft, Twitter, and others. Jackson shows how concepts let designers preserve and reuse design knowledge, rather than starting from scratch in every project. An argument against the status quo and a guide to improvement for both working designers and novices to the field, *The Essence of Software* brings a fresh approach to software and its creation.

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An accessible and rigorous textbook for introducing undergraduates to computer science theory *What Can Be Computed?* is a uniquely accessible yet rigorous introduction to the most profound ideas at the heart of computer science. Crafted specifically for undergraduates who are studying the subject for the first time, and requiring minimal prerequisites, the book focuses on the essential fundamentals of computer science theory and features a practical approach that uses real computer programs (Python and Java) and encourages active experimentation. It is also ideal for self-study and reference. The book covers the standard topics in the theory of computation, including Turing machines and finite automata, universal computation, nondeterminism, Turing and Karp reductions, undecidability, time-complexity classes

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such as P and NP, and NP-completeness, including the Cook-Levin Theorem. But the book also provides a broader view of computer science and its historical development, with discussions of Turing's original 1936 computing machines, the connections between undecidability and Gödel's incompleteness theorem, and Karp's famous set of twenty-one NP-complete problems. Throughout, the book recasts traditional computer science concepts by considering how computer programs are used to solve real problems. Standard theorems are stated and proven with full mathematical rigor, but motivation and understanding are enhanced by considering concrete implementations. The book's examples and other content allow readers to view demonstrations of—and to experiment with—a wide selection of

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the topics it covers. The result is an ideal text for an introduction to the theory of computation. An accessible and rigorous introduction to the essential fundamentals of computer science theory, written specifically for undergraduates taking introduction to the theory of computation Features a practical, interactive approach using real computer programs (Python in the text, with forthcoming Java alternatives online) to enhance motivation and understanding Gives equal emphasis to computability and complexity Includes special topics that demonstrate the profound nature of key ideas in the theory of computation Lecture slides and Python programs are available at whatcanbecomputed.com

Understand the Math Underlying Some of Your Favorite

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Gambling Games Basic Gambling Mathematics: The Numbers Behind the Neon explains the mathematics involved in analyzing games of chance, including casino games, horse racing, and lotteries. The book helps readers understand the mathematical reasons why some gambling games are better for the player than others. It is also suitable as a textbook for an introductory course on probability. Along with discussing the mathematics of well-known casino games, the author examines game variations that have been proposed or used in actual casinos. Numerous examples illustrate the mathematical ideas in a range of casino games while end-of-chapter exercises go beyond routine calculations to give readers hands-on experience with casino-related computations. The book begins with a brief historical

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introduction and mathematical preliminaries before developing the essential results and applications of elementary probability, including the important idea of mathematical expectation. The author then addresses probability questions arising from a variety of games, including roulette, craps, baccarat, blackjack, Caribbean stud poker, Royal Roulette, and sic bo. The final chapter explores the mathematics behind "get rich quick" schemes, such as the martingale and the Iron Cross, and shows how simple mathematics uncovers the flaws in these systems.

Using Data to Make Good Things Happen

Who's #1?

Introduction to Probability Models

Sharp Sports Betting

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A Revolutionary Approach to Baseball and Its Statistics Games, Gambling, and Probability Sprawlball

Joyner, *The Football Scientist*, is pro football's premier game-tape analyst, and uses game film to track, tabulate, and analyze nearly every measurable statistic in an NFL game. Now he uses his vast expertise to tackle key myths and legends of the game.

This book is intended to be used as an advanced beginning or an intermediate text

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in operations research, management science, or mathematical programming. Prepare for the SAS Base Programming for SAS 9 exam with the official guide by the SAS Global Certification Program. New and experienced SAS users who want to prepare for the SAS Base Programming for SAS 9 exam will find this guide to be an invaluable, convenient, and comprehensive resource that covers all of the objectives tested on the exam. Now in its fourth edition, the guide has been extensively updated, and revised to streamline

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explanations. Major topics include importing and exporting raw data files, creating and modifying SAS data sets, and identifying and correcting data syntax and programming logic errors. The chapter quizzes have been thoroughly updated and full solutions are included at the back of the book. In addition, links are provided to the exam objectives, practice exams, and other helpful resources, such as the updated Base SAS glossary and an expanded collection of practice data sets. Describes the life and career of the

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basketball superstar and center for the
Los Angeles Lakers.

Microsoft Excel 2019 Data Analysis and
Business Modeling

What You Need to Know about Computers, the
Internet, Privacy, and Security, Second
Edition

Statistical Forecasting and Risk
Management

An Introduction to Mathematics

Why What You Don't Know Matters

Conditioning for Skating

Tips & Tools for Analyzing and Winning

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A Visual Tour of the New Era of the NBA

You know everything about sports, so why aren't you rich betting on them? Sports betting is hard. But armed with this book, things will get easier. You'll get a complete lesson in betting on sports and the NFL, from the basics of how and where to bet, to picking winners intelligently with simple commandments. The book also dives deeply into the world of advanced NFL statistics and analytics, simplifying expert findings with actionable advice. If you've ever wanted to know the secrets of rich sports bettors explained in simple terms, this book has everything you've wanted and more.

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A brand-new edition of the popular introductory textbook that explores how computer hardware, software, and networks work. Computers are everywhere. Some are highly visible, in laptops, tablets, cell phones, and smart watches. But most are invisible, like those in appliances, cars, medical equipment, transportation systems, power grids, and weapons. We never see the myriad computers that quietly collect, share, and sometimes leak personal data about us. Governments and companies increasingly use computers to monitor what we do. Social networks and advertisers know more about us than we should be comfortable with. Criminals have all-too-easy access to our data. Do we truly understand the power of computers

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in our world? In this updated edition of Understanding the Digital World, Brian Kernighan explains how computer hardware, software, and networks work. Topics include how computers are built and how they compute; what programming is; how the Internet and web operate; and how all of these affect security, privacy, property, and other important social, political, and economic issues. Kernighan touches on fundamental ideas from computer science and some of the inherent limitations of computers, and new sections in the book explore Python programming, big data, machine learning, and much more. Numerous color illustrations, notes on sources for further exploration, and

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a glossary explaining technical terms and buzzwords are included. Understanding the Digital World is a must-read for readers of all backgrounds who want to know more about computers and communications.

What makes WiFi faster at home than at a coffee shop? How does Google order search results? Is it really true that everyone on Facebook is connected by six steps or less? The Power of Networks answers questions like these for the first time in a way that all of us can understand. Using simple language, analogies, stories, hundreds of illustrations, and no more math than simple addition and multiplication, Christopher Brinton and Mung Chiang provide a smart and accessible

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introduction to the handful of big ideas that drive the computer networks we use every day. The Power of Networks unifies these ideas through six fundamental principles of networking. These principles explain the difficulties in sharing network resources efficiently, how crowds can be wise or not so wise depending on the nature of their connections, why there are many layers in a network, and more. Along the way, the authors also talk with and share the special insights of renowned experts such as Google ' s Eric Schmidt, former Verizon Wireless CEO Dennis Strigl, and “ fathers of the Internet ” Vint Cerf and Bob Kahn.

Benjamin C. Alamar founded the first journal dedicated

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to sports statistics, the Journal of Quantitative Analysis in Sports. He developed and teaches a class on sports analytics for managers at the University of San Francisco and has published numerous cutting-edge studies on strategy and player evaluation. Today, he cochairs the sports statistics section of the International Statistics Institute and consults with several professional teams and businesses in sports analytics. There isn't a better representative of this emerging field to show diverse organizations how to implement analytics into their decision-making strategies, especially as analytic tools grow increasingly complex. Alamar provides a clear, easily digestible survey of the practice and a detailed

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understanding of analytics' vast possibilities. He explains how to evaluate different programs and put them to use. Using concrete examples from professional sports teams and case studies demonstrating the use and value of analytics in the field, Alamar designs a roadmap for managers, general managers, and other professionals as they build their own programs and teach their approach to others.

Attacking Vegas and Wall Street

How a Wall Street Trader Made a Fortune Betting on
Baseball

The Numbers Behind The Neon

Applications and Algorithms

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Big Book of WHO Basketball

Mathletics

Advanced STATS and Winning Psychology Made Simple
Modeling Online Auctions

"Data describe and represent the world.

**However, no matter how big they may be, data
sets don't - indeed cannot - capture everything.**

**Data are measurements - and, as such, they
represent only what has been measured. They
don't necessarily capture all the information that
is relevant to the questions we may want to ask.**

**If we do not take into account what may be
missing/unknown in the data we have, we may**

find ourselves unwittingly asking questions that our data cannot actually address, come to mistaken conclusions, and make disastrous decisions. In this book, David Hand looks at the ubiquitous phenomenon of "missing data." He calls this "dark data" (making a comparison to "dark matter" - i.e., matter in the universe that we know is there, but which is invisible to direct measurement). He reveals how we can detect when data is missing, the types of settings in which missing data are likely to be found, and what to do about it. It can arise for many reasons, which themselves may not be obvious -

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for example, asymmetric information in wars; time delays in financial trading; dropouts in clinical trials; deliberate selection to enhance apparent performance in hospitals, policing, and schools; etc. What becomes clear is that measuring and collecting more and more data (big data) will not necessarily lead us to better understanding or to better decisions. We need to be vigilant to what is missing or unknown in our data, so that we can try to control for it. How do we do that? We can be alert to the causes of dark data, design better data-collection strategies that sidestep some of these causes -

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and, we can ask better questions of our data, which will lead us to deeper insights and better decisions"--

"Who's #1? offers an engaging and accessible account of how scientific rating and ranking methods are created and applied to a variety of uses. Amy Langville and Carl Meyer provide the first comprehensive overview of the mathematical algorithms and methods used to rate and rank sports teams, political candidates, products, Web pages, and more. In a series of interesting asides, Langville and Meyer provide fascinating insights into the ingenious

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contributions of many of the field's pioneers. They survey and compare the different methods employed today, showing why their strengths and weaknesses depend on the underlying goal, and explaining why and when a given method should be considered. Also describe what can and can't be expected from the most widely used systems"--

**The student solutions manual provides worked out solutions to 1/3 of the problems in the text. How to use math to improve performance and predict outcomes in professional sports
Mathletics reveals the mathematical methods**

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top coaches and managers use to evaluate players and improve team performance, and gives math enthusiasts the practical skills they need to enhance their understanding and enjoyment of their favorite sports—and maybe even gain the outside edge to winning bets. This second edition features new data, new players and teams, and new chapters on soccer, e-sports, golf, volleyball, gambling Calcuttas, analysis of camera data, Bayesian inference, ridge regression, and other statistical techniques. After reading Mathletics, you will understand why baseball teams should almost

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never bunt; why football overtime systems are unfair; why points, rebounds, and assists aren't enough to determine who's the NBA's best player; and more.

Why the Left Tackle is Overrated and Other Contrarian Football Thoughts

Off-Ice Techniques for On-Ice Performance Using Data to Increase Revenue and Improve Operational Efficiency

The Games People Play, Second Edition Blindsided

7th International Conference of Pioneering Computer Scientists, Engineers and Educators,

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**ICPCSEE 2021, Taiyuan, China, September 17-20,
2021, Proceedings, Part I**

Baseball Hacks

**The Hidden Influences Behind How Sports Are
Played and Games Are Won**

"Beautifully illustrated and sharply written, SprawlBall is both a celebration and a critique of the 3-point shot. If you want to understand how the modern NBA came to be, you'll need to read this book." --Nate Silver, editor of fivethirtyeight.com

From the leading expert in the exploding field of basketball analytics, a stunning infographic decoding of the modern NBA: who shoots where, and how. The field of basketball analytics has leaped to overdrive thanks to Kirk Goldsberry, whose

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visual maps of players, teams, and positions have helped teams understand who really is the most valuable player at any position. SprawlBall combines stunning visuals, in-depth analysis, fun, behind-the-scenes stories and gee-whiz facts to chart a modern revolution. From the introduction of the 3-point line to today, the game has changed drastically . . . Now, players like Steph Curry and Draymond Green are leading the charge. In chapters like "The Geography of the NBA," "The Interior Minister (Lebron James)," "The Evolution of Steph Curry," and "The Investor (James Harden)," Goldsberry explains why today's on-court product--with its emphasis on shooting, passing, and spacing--has never been prettier or more democratic. And it's never been more popular. For fans of Bill Simmons and FreeDarko, SprawlBall is a bold new

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vision of the game, presenting an innovative, cutting-edge look at the sport based on the latest research, as well as a visual and infographic feast for fans.

Essentials of Statistics for the Behavioral Sciences is a concise version of Statistics for the Behavioral Sciences by award-winning teacher, author, and advisor Gregory J. Privitera. The Second Edition provides balanced coverage for today's students, connecting the relevance of core concepts to daily life with new introductory vignettes for every chapter, while speaking to the reader as a researcher when covering statistical theory, computation, and application. Robust pedagogy allows students to continually check their comprehension and hone their skills while working through carefully developed problems and exercises that include

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current research and seamless integration of IBM® SPSS® Statistics. Readers will welcome Privitera's thoughtful instruction, conversational voice, and application of statistics to real-world problems. A Complete Teaching & Learning Package Contact your rep to help find the perfection combination of tools and resources below to fit your unique course needs. SAGE coursepacks FREE! SAGE coursepacks makes it easy to import our quality instructor and student resource content into your school's learning management system (LMS). Intuitive and simple to use, SAGE coursepacks allows you to customize course content to meet your students' needs. Learn more. SAGE edge FREE! SAGE edge offers both instructors and students a robust online environment with an impressive array of teaching and learning resources. Learn

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more. *Study Guide With IBM® SPSS® Workbook Bundle the Second Edition with the accompanying Student Study Guide With IBM® SPSS® Workbook for Essential Statistics for the Behavioral Sciences for only \$5 more. Learn more. Guide for Users of R, SAS®, and Stata® Bundle the Second Edition with the accompanying Essentials of Statistical Analysis "In Focus" for only \$5 more! Learn more. WebAssign® This title is available on WebAssign, allowing instructors to produce and manage assignments with their students online using a grade book that allows them to track and monitor students' progress. Students receive unlimited practice using a combination of multiple choice and algorithmic questions, and are allowed unlimited access to this edition of the textbook in the same course at no additional cost. WebAssign provides instant*

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feedback and links directly to the accompanying eBook section where the concept was covered, allowing students to find the correct solution. Learn more. Perusall Perusall is an award-winning eBook platform featuring social annotation tools that allow students and instructors to collaboratively mark up and discuss their SAGE textbook. Backed by research and supported by technological innovations developed at Harvard University, this process of learning through collaborative annotation keeps your students engaged and makes teaching easier and more effective. Learn more. In Scorecasting, University of Chicago behavioral economist Tobias Moskowitz teams up with veteran Sports Illustrated writer L. Jon Wertheim to overturn some of the most cherished truisms of sports, and reveal the hidden forces that shape how

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basketball, baseball, football, and hockey games are played, won and lost. Drawing from Moskowitz's original research, as well as studies from fellow economists such as bestselling author Richard Thaler, the authors look at: the influence home-field advantage has on the outcomes of games in all sports and why it exists; the surprising truth about the universally accepted axiom that defense wins championships; the subtle biases that umpires exhibit in calling balls and strikes in key situations; the unintended consequences of referees' tendencies in every sport to "swallow the whistle," and more. Among the insights that Scorecasting reveals:

- Why Tiger Woods is prone to the same mistake in high-pressure putting situations that you and I are*
- Why professional teams routinely overvalue draft picks*
- The myth of momentum or the*

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"hot hand" in sports, and why so many fans, coaches, and broadcasters fervently subscribe to it • Why NFL coaches rarely go for a first down on fourth-down situations--even when their reluctance to do so reduces their chances of winning. In an engaging narrative that takes us from the putting greens of Augusta to the grid iron of a small parochial high school in Arkansas, Scorecasting will forever change how you view the game, whatever your favorite sport might be.

This two volume set (CCIS 1451 and 1452) constitutes the refereed proceedings of the 7th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2021 held in Taiyuan, China, in September 2021. The 81 papers presented in these two volumes were carefully reviewed and selected from 256 submissions. The papers are

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organized in topical sections on big data management and applications; social media and recommendation systems; infrastructure for data science; basic theory and techniques for data science; machine learning for data science; multimedia data management and analysis; social media and recommendation systems; data security and privacy; applications of data science; education research, methods and materials for data science and engineering; research demo.

The Power of Networks

Understanding the Digital World

Monte Carlo or Bust

The Hidden Game of Baseball

Six Principles That Connect Our Lives

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Footballistics

Simulation Modeling Using @Risk

Developing and implementing a systematic analytics strategy can result in a sustainable competitive advantage within the sport business industry. This timely and relevant book provides practical strategies to collect data and then convert that data into meaningful, value-added information and actionable insights. Its primary objective is to help sport business organizations utilize data-driven decision-making to generate optimal revenue from such areas as ticket sales and corporate

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partnerships. To that end, the book includes in-depth case studies from such leading sports organizations as the Orlando Magic, Tampa Bay Buccaneers, Duke University, and the Aspire Group. The core purpose of sport business analytics is to convert raw data into information that enables sport business professionals to make strategic business decisions that result in improved company financial performance and a measurable and sustainable competitive advantage. Readers will learn about the role of big data and analytics in:

- Ticket pricing
- Season ticket member retention
- Fan engagement

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Sponsorship valuation Customer relationship management Digital marketing Market research Data visualization. This book examines changes in the ticketing marketplace and spotlights innovative ticketing strategies used in various sport organizations. It shows how to engage fans with social media and digital analytics, presents techniques to analyze engagement and marketing strategies, and explains how to utilize analytics to leverage fan engagement to enhance revenue for sport organizations. Filled with insightful case studies, this book benefits both sports business

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professionals and students. The concluding chapter on teaching sport analytics further enhances its value to academics.

First published in 1984, *The Hidden Game of Baseball* ushered in the sabermetric revolution by demonstrating that we were thinking about baseball stats and thus the game itself all wrong. This brand-new edition retains the body of the original, with its rich, accessible analysis rooted in a deep love of baseball, while adding a new introduction by the authors tracing the book's influence over the years.

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Explore cutting-edge statistical methodologies for collecting, analyzing, and modeling online auction data Online auctions are an increasingly important marketplace, as the new mechanisms and formats underlying these auctions have enabled the capturing and recording of large amounts of bidding data that are used to make important business decisions. As a result, new statistical ideas and innovation are needed to understand bidders, sellers, and prices. Combining methodologies from the fields of statistics, data mining, information systems, and economics, Modeling Online Auctions

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introduces a new approach to identifying obstacles and asking new questions using online auction data. The authors draw upon their extensive experience to introduce the latest methods for extracting new knowledge from online auction data. Rather than approach the topic from the traditional game-theoretic perspective, the book treats the online auction mechanism as a data generator, outlining methods to collect, explore, model, and forecast data. Topics covered include: Data collection methods for online auctions and related issues that arise in drawing data samples from a Web site

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Models for bidder and bid arrivals, treating the different approaches for exploring bidder-seller networks Data exploration, such as integration of time series and cross-sectional information; curve clustering; semi-continuous data structures; and data hierarchies The use of functional regression as well as functional differential equation models, spatial models, and stochastic models for capturing relationships in auction data Specialized methods and models for forecasting auction prices and their applications in automated bidding decision rule systems Throughout the book, R and MATLAB

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software are used for illustrating the discussed techniques. In addition, a related Web site features many of the book's datasets and R and MATLAB code that allow readers to replicate the analyses and learn new methods to apply to their own research. Modeling Online Auctions is a valuable book for graduate-level courses on data mining and applied regression analysis. It is also a one-of-a-kind reference for researchers in the fields of statistics, information systems, business, and marketing who work with electronic data and are looking for new approaches for understanding online auctions and

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processes. Visit this book's companion website by clicking here

Few people manage to make money from gambling; fewer still make a living from it. Written for hardened and novice sports bettors alike, Joseph Buchdahl's *Fixed Odds Sports Betting* examines, through various numerical techniques, how fixed odds punters may learn to beat the bookmaker, protect profits through a sensible approach to risk management, and turn high-risk gambling into a form of low-risk investment. *Fixed Odds Sports Betting* investigates:

- Markets in fixed odds sports betting

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- The bookmaker's overround
 - Value betting
 - Ratings systems for sports prediction
 - Profitability and risk
 - Singles versus accumulators
 - Staking plans and money management
 - The favourite-longshot bias
 - Sports advisory services
 - Betting records and their significance testing
- Marketing Points:
- Adopts a numerical approach to fixed odds sports betting
 - Provides an in-depth examination of betting risk and money management
 - Utilises extensive data analyses and staking plan computer simulations
 - Invaluable reading for statistically-literate sports bettors
 - Many useful ideas for the more casual

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punter ·Exposes some of the long-standing myths
surrounding fixed odds betting