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*Introduction to Data
Science: Data Analysis and
Prediction Algorithms with
R introduces concepts and*

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skills that can help you tackle real-world data analysis challenges. It covers concepts from probability, statistical inference, linear regression, and machine

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learning. It also helps you develop skills such as R programming, data wrangling, data visualization, predictive algorithm building, file organization with

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UNIX/Linux shell, version control with Git and GitHub, and reproducible document preparation. This book is a textbook for a first course in data science. No previous

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knowledge of R is necessary, although some experience with programming may be helpful. The book is divided into six parts: R, data visualization,

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statistics with R, data wrangling, machine learning, and productivity tools. Each part has several chapters meant to be presented as one lecture. The author uses

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motivating case studies that realistically mimic a data scientist's experience. He starts by asking specific questions and answers these through data analysis so concepts

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are learned as a means to answering the questions. Examples of the case studies included are: US murder rates by state, self-reported student heights, trends in world

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*health and economics, the
impact of vaccines on
infectious disease rates,
the financial crisis of
2007-2008, election
forecasting, building a
baseball team, image*

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processing of hand-written digits, and movie recommendation systems. The statistical concepts used to answer the case study questions are only briefly introduced, so

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complementing with a probability and statistics textbook is highly recommended for in-depth understanding of these concepts. If you read and understand the chapters

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and complete the exercises, you will be prepared to learn the more advanced concepts and skills needed to become an expert.

The 2000 High School

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Guide and Technical
ReportThe High School
Transcript StudyA Study of
the Effectiveness of a
Microcomputer Drill and
Practice Math Program in*

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Gagne's Theory of Learning
Hierarchy with Mildly
Handicapped
Students Mathematics and
Computation A Theory
Revolutionizing Technology*

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*and SciencePrinceton
University Press
Introduction to Business
covers the scope and
sequence of most
introductory business
courses. The book provides*

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detailed explanations in the context of core themes such as customer satisfaction, ethics, entrepreneurship, global business, and managing change. Introduction to

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Business includes hundreds of current business examples from a range of industries and geographic locations, which feature a variety of individuals. The outcome is a balanced

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approach to the theory and application of business concepts, with attention to the knowledge and skills necessary for student success in this course and beyond.

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*The Official Guide to the
GRE General Test, Third
Edition*

*Psychology 2e
Mathematics and
Computation*

Introduction to Data

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Science

*Exemplary Programs in
Introductory College
Mathematics*

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Or Services for Students
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Learning Disabilities

"Witty, compelling, and just plain fun to read . . ." —Evelyn Lamb, Scientific American The Freakonomics of math—a math-world superstar unveils the hidden beauty and logic of the world and puts its power in our hands The math we

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learn in school can seem like a dull set of rules, laid down by the ancients and not to be questioned. In *How Not to Be Wrong*, Jordan Ellenberg shows us how terribly limiting this view is: Math isn't confined to abstract incidents that never occur in real life, but rather

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touches everything we do—the whole world is shot through with it. Math allows us to see the hidden structures underneath the messy and chaotic surface of our world. It's a science of not being wrong, hammered out by centuries of hard work and argument. Armed with the

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tools of mathematics, we can see through to the true meaning of information we take for granted: How early should you get to the airport? What does “public opinion” really represent? Why do tall parents have shorter children? Who really won Florida in 2000? And how likely

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are you, really, to develop cancer?
How Not to Be Wrong presents the
surprising revelations behind all of
these questions and many more,
using the mathematician's method of
analyzing life and exposing the hard-
won insights of the academic
community to the layman—minus the

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jargon. Ellenberg chases mathematical threads through a vast range of time and space, from the everyday to the cosmic, encountering, among other things, baseball, Reaganomics, daring lottery schemes, Voltaire, the replicability crisis in psychology,

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Italian Renaissance painting, artificial languages, the development of non-Euclidean geometry, the coming obesity apocalypse, Antonin Scalia's views on crime and punishment, the psychology of slime molds, what Facebook can and can't figure out about you, and the

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existence of God. Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need. Math, as Ellenberg says, is “an atomic-powered prosthesis that you attach to your common sense, vastly

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multiplying its reach and strength.”
With the tools of mathematics in hand, you can understand the world in a deeper, more meaningful way. How Not to Be Wrong will show you how.

AppleScript is an English-like, easy-to-understand scripting language

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built into every Mac. AppleScript can automate hundreds of AppleScriptable applications, performing tasks both large and small, complex and simple. Learn AppleScript: The Comprehensive Guide to Scripting and Automation on Mac OS X, Third Edition has been completely updated

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advanced AppleScripters Includes major contributions from expert AppleScripters: Emmanuel Levy, Harald Monihart, Ian Piper, Shane Stanley, Barry Wainwright, Craig Williams, and foreword by AppleScript inventor, William Cook
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vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

College Algebra

The 2000 High School Transcript Study User's Guide and Technical Report

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College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The modular approach and richness of content ensure

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that the book meets the needs of a variety of courses. College Algebra offers a wealth of examples with detailed, conceptual explanations, building a strong foundation in the material before asking

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students to apply what they've learned. Coverage and Scope In determining the concepts, skills, and topics to cover, we engaged dozens of highly experienced instructors with a range of student audiences. The

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resulting scope and sequence proceeds logically while allowing for a significant amount of flexibility in instruction. Chapters 1 and 2 provide both a review and foundation for study of Functions that begins in

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Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other institutions have told us that they have a cohort that need the prerequisite skills built into the

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***course. Chapter 1:
Prerequisites Chapter 2:
Equations and Inequalities
Chapters 3-6: The Algebraic
Functions Chapter 3:
Functions Chapter 4: Linear
Functions Chapter 5:
Polynomial and Rational***

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***Functions Chapter 6:
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Functions Chapters 7-9:
Further Study in College
Algebra Chapter 7: Systems
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Inequalities Chapter 8:
Analytic Geometry Chapter 9:***

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Sequences, Probability and Counting Theory

This monograph examines the nature of active learning at the higher education level, the empirical research on its use, the common obstacles and barriers that

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give rise to faculty resistance, and how faculty and staff can implement active learning techniques. A preliminary section defines active learning and looks at the current climate surrounding the concept. A

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second section, entitled "The Modified Lecture" offers ways that teachers can incorporate active learning into their most frequently used format: the lecture. The following section on classroom

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discussion explains the conditions and techniques needed for the most useful type of exchange. Other ways to promote active learning are also described including: visual learning, writing in class, problem

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solving, computer-based instruction, cooperative learning, debates, drama, role playing, simulations, games, and peer teaching. A section on obstacles to implementing active learning techniques leads naturally

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*to the final section,
"Conclusions and
Recommendations," which
outlines the roles that each
group within the university
can play in order to
encourage the implementation
of active learning*

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strategies. The text includes over 200 references and an index. (JB)

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Books in Print Supplement

Principles of Mathematics

Book 1 Teacher Guide

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programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation,

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environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the

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philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short,

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you'll learn how to: * Create
and delete files, directories,
and symlinks * Administer
your system, including
networking, package
installation, and process***

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Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive***

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way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin"

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Astronomy is written in clear non-technical language, with the occasional touch of humor and a wide range of clarifying illustrations. It has many analogies drawn

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and meaningless rules.
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that has a biblical
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throughout the text and
problems, not just added as***

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an afterthought. The resources in the Teacher Guide will help students master and apply the skills learned in the Student Textbook. What does this Teacher Guide include?

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answers are included for the worksheets, quizzes, and tests found in this Teacher Guide. Schedule: A suggested calendar schedule is provided for completing the material in

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one year, though this can be adapted to meet individual student needs. There is also an accelerated schedule for completing the material in one semester. Are there any prerequisites

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for this course? This curriculum is aimed at grades 6-8, fitting into most math approaches the year or two years prior to starting high school algebra. If following

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traditional grade levels, Book 1 should be completed in grade 6 or 7, and Book 2 in grade 7 or 8. In Book 1 students should have a basic knowledge of arithmetic (basic arithmetic

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will be reviewed, but at a fast pace and while teaching problem-solving skills and a biblical worldview of math) and sufficient mental development to think

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through the concepts and examples given. Typically, anyone in sixth grade or higher should be prepared to begin. The focus of the course is actually learning math for life, not simply

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***preparing to pass a test.
ASVAB Core Review
How Not to Be Wrong
Active Learning
A Guide to Building
Information Modeling for
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biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary

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strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage

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found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an

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innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

The Book of R is a comprehensive, beginner-friendly guide to R, the

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world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin

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using R effectively for statistical analysis. You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced topics, like producing statistical summaries of your

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data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as

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interactive 3D visualizations using the rgl package. Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn: -The fundamentals of programming in R, including how to write

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**data frames, create functions,
and use variables,
statements, and loops
-Statistical concepts like
exploratory data analysis,
probabilities, hypothesis
tests, and regression
modeling, and how to execute**

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thousands of functions,
libraries, and data sets -How
to draw valid and useful
conclusions from your data
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explanations with real-world examples and exercises, this book will provide you with a solid understanding of both statistics and the depth of R's functionality. Make The Book of R your doorway into the growing world of data

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analysis.

This handbook contains a collection of the winning entries in the first INPUT Competition, part of the INPUT (Innovative Programs Using Technology) Project. The INPUT Project was

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approach grounded in the fundamentals of classroom experience in Beginning and Intermediate Algebra. The text reflects the compassion and insight of its experienced author with features developed to address the

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specific needs of developmental level students. Throughout the text, the author communicates to students the very points their instructors are likely to make during lecture, and this helps to reinforce the concepts and provide instruction that leads

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students to mastery and success. The exercises, along with the number of practice problems and group activities available, permit instructors to choose from a wealth of problems, allowing ample opportunity for students to practice

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what they learn in lecture to hone their skills. In this way, the book perfectly complements any learning platform, whether traditional lecture or distance-learning; its instruction is so reflective of what comes from lecture, that students will feel as

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comfortable outside of class as they do inside class with their instructor. Hundreds of thousands of students with learning disabilities head to college every year. Aside from coping with difficulties in learning, students and their families face the

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daunting process of seeking out the right school for their specific needs. The K&W Guide to Colleges for Students with Learning Differences includes profiles of 350 schools, advice from specialists in the field of learning disabilities, and

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strategies to help students find the right program.

The KandW Guide to Colleges for
Students with Learning Differences
The Power of Mathematical

Thinking

Princeton Review ASVAB Prep, 5th

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Edition

Introduction to Business

Vectors, Matrices, and Least
Squares

BIM Handbook

*Designed for the two-semester Applied
Calculus course, this graphing*

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calculator-dependent text uses an innovative approach that includes real-life applications and technology such as graphing utilities and Excel spreadsheets to help students learn mathematical skills that they will draw on in their lives and careers. The text

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also caters to different learning styles by presenting concepts in a variety of forms, including algebraic, graphical, numeric, and verbal. Targeted toward students majoring in business economics, liberal arts, management and the life & social sciences, Calculus

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Concepts, 4/e uses real data and situations to help students develop an intuitive understanding of the concepts being taught. The fourth edition has been redesigned for clarity and to emphasize certain concepts and objectives. Important Notice: Media

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Because of its large command structure and intricate syntax, Mathematica can be difficult to learn. Wolfram's Mathematica manual, while certainly

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comprehensive, is so large and complex that when trying to learn the software from scratch -- or find answers to specific questions -- one can be quickly overwhelmed. A Beginner's Guide to Mathemat Discover BIM: A better way to build

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better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of

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capital resources.

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Approach to the Mathematics of
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