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The Making of*

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effective
level. The
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options come
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which combines
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students read
the book; the
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arguments from
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tools. For
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who want the*

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designed for
the one-
semester,
introduction*

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*to statistics
course and is
geared toward
students
majoring in
fields other
than math or
engineering.
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assumes
students have
been exposed*

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to

*intermediate
algebra, and
it focuses on
the
applications
of statistical
knowledge
rather than
the theory
behind it. The
foundation of*

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*this textbook
is*

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Illowsky and
Susan Dean.*

*Additional
topics,
examples, and
ample
opportunities*

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*for practice
have been
added to each
chapter. The
development
choices for
this textbook
were made with
the guidance
of many
faculty
members who*

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*are deeply
involved in
teaching this
course. These
choices led to
innovations in
art,
terminology,
and practical
applications,
all with a
goal of*

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*increasing
relevance and
accessibility
for students.
We strove to
make the
discipline
meaningful, so
that students
can draw from
it a working
knowledge that*

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*will enrich
their future
studies and
help them make
sense of the
world around
them. Coverage
and Scope*

Chapter 1

Sampling and

Data Chapter 2

Descriptive

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Statistics

Chapter 3

Probability

Topics Chapter

4 Discrete

Random

Variables

Chapter 5

Continuous

Random

Variables

Chapter 6 The

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Normal

Distribution

***Chapter 7 The
Central Limit
Theorem***

***Chapter 8
Confidence
Intervals***

***Chapter 9
Hypothesis
Testing with
One Sample***

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Chapter 10

Hypothesis

Testing with

Two Samples

Chapter 11 The

Chi-Square

Distribution

Chapter 12

Linear

Regression and

Correlation

Chapter 13 F

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*Distribution
and One-Way
ANOVA*

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his
tricks—Darrell
Huff explains
exactly how in
the classic
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averages,
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dodges that
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*anyone with an
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a product to
sell. With
abundant
examples and
illustrations,
Darrell Huff's
lively and
engaging
primer
clarifies the*

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basic

*principles of
statistics and
explains how
they're used
to present
information in
honest and not-
so-honest
ways. Now even
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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

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and elsewhere
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cases, real-
life examples*

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*and exercises,
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pedagogy, rich
full-color
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innovative
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tools, all
significantly
updated.*

*Statistics for
People Who*

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(Think They)

Hate

Statistics

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to the

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Statistics

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The Practice

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*Basic Concepts
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careers and real-
world experiences.
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and comprehensive"
guide to statistical
thinking (New

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Yorker), discover how data literacy is changing the world and gives you a better understanding of life's biggest problems. Statistics are everywhere, as integral to science as they are to business, and in the popular media hundreds of

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times a day. In this age of big data, a basic grasp of statistical literacy is more important than ever if we want to separate the fact from the fiction, the ostentatious embellishments from the raw evidence -- and even more so if

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we hope to

participate in the
future, rather than
being simple

bystanders. In *The
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statistician David
Spiegelhalter shows
readers how to
derive knowledge
from raw data by

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focusing on the concepts and connections behind the math. Drawing on real world examples to introduce complex issues, he shows us how statistics can help us determine the luckiest passenger on the

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Titanic, whether a notorious serial killer could have been caught earlier, and if screening for ovarian cancer is beneficial. The Art of Statistics not only shows us how mathematicians have used statistical science to solve

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modern person

needs.

Statistics in Practice
is an exciting new
addition to W.H.

Freeman's

introductory

statistics list. Co-

authored by David

Moore, it maintains

his pioneering data

analysis approach

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but incorporates significant changes designed to help students. Statistics in Practice introduces data collection early, covers tests of proportions first before tests of means, and engages students with its conversational

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statistics. It

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VII. Normal
Distributions, VIII.
Advanced Graphs,
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David M. Lane,
Rice University.
Statistical
Methods: An
Introduction to
Basic Statistical
Concepts and
Analysis, Second
Edition is a
textbook designed
for students with
no prior training in

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statistics. It provides a solid background of the core statistical concepts taught in most introductory statistics textbooks.

Mathematical proofs are deemphasized in favor of careful

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explanations of statistical constructs. The text begins with coverage of descriptive statistics such as measures of central tendency and variability, then moves on to inferential

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statistics.

Transitional chapters on z-scores, probability, and sampling distributions pave the way to understanding the logic of hypothesis testing and the inferential tests that follow.

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Hypothesis testing is taught through a four-step process. These same four steps are used throughout the text for the other statistical tests presented including t tests, one- and two-way ANOVAs, chi-

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square, and correlation. A chapter on nonparametric tests is also provided as an alternative when the requirements cannot be met for parametric tests. Because the same logical framework

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and sequential steps are used throughout the text, a consistency is provided that allows students to gradually master the concepts.

Their learning is enhanced further with the inclusion of "thought

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questions" and
practice problems
integrated
throughout the
chapters. New to
the second edition:
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factorial analysis of
variance and non-
parametric
techniques for all
data Additional

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and updated
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*This book contains a
Foreword by Allyson
Pollock, Professor
and Head, Centre
for International
Public Health Policy,
University of
Edinburgh.*

*Healthcare students,
practitioners and*

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researchers need a sound basis for making valid statistical inferences from health data. To make the best use of statistical software, it is necessary to understand how probabilistic inference works. This book explains that, along with the

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*various ways
statistical data can
be described and
presented. It is
designed to develop
insight rather than
simply the
mechanical skills
found in other
textbooks. This book
is specifically
designed to
underpin the*

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*concepts of
statistics and
epidemiology. It is
practical and easy to
use and is ideal for
people who can feel
uncomfortable with
mathematics.*

*'Excellent. A great
primer for all
students and
research workers
engaged in learning*

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how to use statistical ideas in public health. It sets out the core concepts and explains them clearly, using worked examples as illustration. If followed carefully, the engaged reader should be able to use the standard statistical software

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*packages
intelligently and
sensitively. It will
stimulate the public
health student, in
whatever context,
and new
researchers, to
approach the
enterprise with
enhanced
confidence in
interpreting and*

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*coherently
explaining their
findings.'* - Allyson
Pollock, in the
Foreword.

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

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R: Reaching
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provides an understanding of the processes at work in using data for results. Sections cover data collection and discuss exploratory analyses, including visual graphs, numerical summaries, and relationships

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*between variables -
basic probability,
and statistical
inference - including
hypothesis testing
and confidence
intervals. All topics
are taught using real-
data drawn from
various fields,
including
economics, biology,
political science and*

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sports. Using this wide variety of motivating examples allows students to directly connect and make statistics essential to their field of interest, rather than seeing it as a separate and ancillary knowledge area. In addition to introducing students

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to statistical topics using real data, the book provides a gentle introduction to coding, having the students use the statistical language and software R.

Students learn to load data, calculate summary statistics, create graphs and do statistical

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*inference using R
with either Windows
or Macintosh
machines. Features
real-data to give
students an
engaging practice to
connect with their
areas of interest
Evolves from basic
problems that can
be worked by hand
to the elementary*

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*use of opensource R
software Offers a
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highlighted by useful
visuals and
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practical guide to
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stronger

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emphasis on
data
visualizations
has been
added. The
statistical
exercises have
been re-
organized into
units to
facilitate
ease of use

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and

understanding.

About this

book Each of

the 64

exercises

gives a brief

excerpt of

statistical

reporting from

a published

research

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article, and begins with guidelines for interpreting the statistics in the excerpt. The questions on the excerpts promote learning by requiring

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students to
interpret
information in
tables and
figures,
perform simple
calculations
to further
their interpre-
tations,
critique data-
reporting

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techniques,
and evaluate
procedures
used to
collect data.
Each exercise
covers a
limited number
of statistics,
making it easy
to coordinate
the exercises

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with lectures
and a main
textbook. The
questions in
each exercise
are divided
into two
parts: (1)
Factual
Questions and
(2) Questions
for

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Discussion.

The factual questions require careful reading for details, while the discussion questions show that interpreting statistics is

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more than a
mathematical
exercise.

These
questions
require
students to
apply good
judgment as
well as
statistical
reasoning in

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arriving at
appropriate in-
terpretations.
This book
presents
statistical
concepts and
techniques in
simple,
everyday
language to
help readers

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gain a better understanding of how they work and how to interpret them

correctly.

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features a description of

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the statistic including how it is used and the information it provides, how to calculate the formula, the strengths and weaknesses of each technique, the

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conditions
needed for its
use, and an
example that
uses and
interprets the
statistic. A
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terms and
symbols is
also included
along with an

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any course
that uses
statistics, or
as a handy
reference tool
to refresh
one's memory
about key
concepts. The

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research

examples are

from a variety

of fields,

including

psychology and

education.

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of Statistics has become a bestselling textbook by focusing on how statistics are gathered, analyzed, and applied to real problems and situations—and by confronting student anxieties about the course's relevance and difficulties head on. With David

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**Moore's pioneering
"data analysis"
approach
(emphasizing
statistical thinking
over computation),
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and case studies,
current problems
and exercises, and
an accessible level
of mathematics,
there is no more
effective textbook**

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for showing students what working statisticians do and what accurate interpretations of data can reveal about the world we live in. In the new edition, you will once again see how everything fits together. As always, Moore's text offers

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balanced content, beginning with data analysis, then covering probability and inference in the context of statistics as a whole. It provides a wealth of opportunities for students to work with data from a wide range of disciplines and real-world settings,

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emphasizing the big ideas of statistics in the context of learning specific skills used by professional statisticians.

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for instructors and students—including the latest version of the widely-adopted StatsPortal. The full picture of the contemporary practice of statistics has never been so captivatingly presented to an uninitiated audience.

Tailored to mirror

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

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**instructions for the
TI-89 graphic
calculator."**

**Designed to
introduce students
to quantitative
methods in a way
that can be applied
to all kinds of data
in all kinds of
situations, Statistics
and Data**

**Visualization Using
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Practice of Data Analysis by David S. Brown teaches students statistics through charts, graphs, and displays of data that help students develop intuition around statistics as well as data visualization skills. By focusing on the visual nature of

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statistics instead of mathematical proofs and derivations, students can see the relationships between variables that are the foundation of quantitative analysis. Using the latest tools in R and R RStudio® for calculations and data visualization,

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students learn valuable skills they can take with them into a variety of future careers in the public sector, the private sector, or academia. Starting at the most basic introduction to data and going through most crucial statistical methods, this introductory

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**textbook quickly
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topics with examples and exercises drawn from across the life sciences, including the fields of nursing, public health, and allied health. Based on David Moore ' s The Basic Practice of Statistics, PSLS mirrors that #1 bestseller ' s

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signature emphasis on statistical thinking, real data, and what statisticians actually do. The new edition includes new and updated exercises, examples, and samples of real data, as well as an expanded range of media tools for

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students and
instructors.

Taken literally, the
title "All of Statistics"
is an exaggeration.

But in spirit, the title
is apt, as the book
does cover a much
broader range of
topics than a typical
introductory book on
mathematical

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statistics. This book is for people who want to learn probability and statistics quickly. It is suitable for graduate or advanced undergraduate students in computer science, mathematics, statistics, and related disciplines. The book includes modern

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topics like non-parametric curve estimation, bootstrapping, and classification, topics that are usually relegated to follow-up courses. The reader is presumed to know calculus and a little linear algebra. No previous

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knowledge of probability and statistics is required. Statistics, data mining, and machine learning are all concerned with collecting and analysing data. Scientific progress depends on good research, and good

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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

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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

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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

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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

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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

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know. The first step toward statistics done right is Statistics Done Wrong.

David Moore ' s data analysis (conceptual) approach, which revolutionized the introductory statistics textbook, moves students away from formulas and number-

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crunching, focusing instead on how working statisticians in a variety of fields collect and analyze data, and use the results to tackle real-world problems. The clear, direct way of emphasizing the course 's relevance and confronting

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students' math anxieties is at the heart of the bestselling *The Basic Practice of Statistics*. It is also the ideal approach for taking full advantage of the powerful statistical tools and interactive learning features in this new edition's

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text/media package.

Now more than ever, this textbook is ready to help students move from reading about statistical practice to practicing statistics themselves. This option includes both the textbook and the LaunchPad.

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interactive online resource that helps students achieve better results.

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adaptive quizzing resource, to engage your students and develop their understanding.

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The Excel Edition

The Basic Practice of

Statistics, 3e + Splus

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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

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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

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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

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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

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belongs to Statistical
machine learning
methods that “learn”
from data

Unsupervised
learning methods for
extracting meaning
from unlabeled data

This comprehensive,
graduate-level text for
advanced practice
nurses and other
health care
professionals

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provides state-of-the-art tools that facilitate the reading and interpretation of clinical research articles that use increasingly complex statistical techniques. It addresses clinically relevant topics in biostatistics beyond the usual introduction to linear models, such as survival analysis

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and evaluation of screening tests. The text emphasizes the importance of understanding the underlying logic of statistical inference and statistical models to support correct interpretation and effective translation into practice. It promotes appropriate statistical method

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selection for
conducting
translational research.
With a focus on
disseminating
information in easily
understandable
language, the text
addresses basic
statistical reasoning
and four different
classes of statistical
models. The appendix
provides refreshers

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on the algebraic underpinnings of statistics. More complex algebraic derivations are highlighted in boxes throughout the text chapters. The text explains how to work with the exponential expressions and logarithms necessary for the interpretation of logistic and hazard

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regression models
and features clear
explanations of more
sophisticated
statistical models,
inference, and
analyses. Chapters
include examples
from current research
and multiple exercises
designed to reinforce
learning. Key
Features: End-of-
chapter exercises

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include both problems of interpretation and numerical problems that can be solved via hand calculations. For instructors and students interested in practical data analysis, data sets and practice problems are available from Springer Publishing Company's website with instructions in

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SPSS, STATA, and SAS formats. At the end of each chapter is a Literature Application text box with interpretation questions about a recent research article that highlights the statistical model discussed in the chapter. Throughout the book, text boxes highlight the most

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important algebraic formulas useful in interpreting statistical methods. A chapter on data management practices and ethical issues of privacy maintenance is included. Nine appendices provide tables of major probability distributions, for example, normal, t-

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and F-distributions,
and algebraic
derivations of some of
the most important
results in statistics.

Collaborative
Statistics is intended
for introductory
statistics courses
being taken by
students at two- and
four-year colleges
who are majoring in
fields other than math

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or engineering.

Intermediate algebra is the only prerequisite. The book focuses on applications of statistical knowledge rather than the theory behind it. Barbara Illowsky and Susan Dean are professors of mathematics and statistics at De Anza College in Cupertino,

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CA. They present nationally on integrating technology, distance learning, collaborative learning, and multiculturalism into the elementary statistics classroom.

Essential Statistics for
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