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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

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books on basic statistics rarely cover the topic from a data science perspective. This practical guide explains how to apply various statistical methods to data science, tells you how to avoid their misuse, and gives you advice on what's important and what's not. Many

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data science resources
incorporate statistical
methods but lack a
deeper statistical
perspective. If you're
familiar with the R
programming
language, and have
some exposure to
statistics, this quick
reference bridges the
gap in an accessible,
readable format. With

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this book, you'll
learn: Why
exploratory data
analysis is a key
preliminary step in
data science How
random sampling can
reduce bias and yield
a higher quality
dataset, even with big
data How the
principles of
experimental design

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yield definitive
answers to questions
How to use regression
to estimate outcomes
and detect anomalies
Key classification
techniques for
predicting which
categories a record
belongs to Statistical
machine learning
methods that “learn”
from data

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Unsupervised learning methods for extracting meaning from unlabeled data

This comprehensive, flexible text is used in both one- and two-semester courses to review introductory through intermediate statistics. Instructors select the topics that are most appropriate

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for their course. Its conceptual approach helps students more easily understand the concepts and interpret SPSS and research results. Key concepts are simply stated and occasionally reintroduced and related to one another for reinforcement.

Numerous examples

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demonstrate their
relevance. This edition
features more
explanation to
increase
understanding of the
concepts. Only crucial
equations are
included. In addition
to updating
throughout, the new
edition features: New
co-author, Debbie L.

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Hahs-Vaughn, the 2007 recipient of the University of Central Florida's College of Education Excellence in Graduate Teaching Award. A new chapter on logistic regression models for today's more complex methodologies. More on computing confidence intervals

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and conducting power
analyses using

G*Power. Many more
SPSS screenshots to
assist with
understanding how to
navigate SPSS and
annotated SPSS
output to assist in the
interpretation of
results. Extended
sections on how to
write-up statistical

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results in APA format.

New learning tools including chapter-opening vignettes, outlines, and a list of key concepts, many more examples, tables, and figures, boxes, and chapter summaries. More tables of assumptions and the effects of their violation including

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how to test them in SPSS. 33% new conceptual, computational, and all new interpretative problems. A website that features PowerPoint slides, answers to the even-numbered problems, and test items for instructors, and for students the chapter

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outlines, key concepts, and datasets that can be used in SPSS and other packages, and more. Each chapter begins with an outline, a list of key concepts, and a vignette related to those concepts.

Realistic examples from education and the behavioral sciences illustrate

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those concepts. Each example examines the procedures and assumptions and provides instructions for how to run SPSS, including annotated output, and tips to develop an APA style write-up. Useful tables of assumptions and the effects of their violation are included,

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along with how to test assumptions in SPSS. 'Stop and Think' boxes provide helpful tips for better understanding the concepts. Each chapter includes computational, conceptual, and interpretive problems. The data sets used in the examples and

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problems are provided on the web. Answers to the odd-numbered problems are given in the book. The first five chapters review descriptive statistics including ways of representing data graphically, statistical measures, the normal distribution, and probability and

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sampling. The remainder of the text covers inferential statistics involving means, proportions, variances, and correlations, basic and advanced analysis of variance and regression models. Topics not dealt with in other texts such as robust methods,

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multiple comparison
and nonparametric
procedures, and
advanced ANOVA
and multiple and
logistic regression
models are also
reviewed. Intended for
one- or two-semester
courses in statistics
taught in education
and/or the behavioral
sciences at the

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graduate and/or
advanced
undergraduate level,
knowledge of
statistics is not a
prerequisite. A
rudimentary
knowledge of algebra
is required.

Medicine deals with
treatments that work
often but not always,
so treatment success

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must be based on probability. Statistical methods lift medical research from the anecdotal to measured levels of probability. This book presents the common statistical methods used in 90% of medical research, along with the underlying basics, in two parts: a textbook

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section for use by students in health care training programs, e.g., medical schools or residency training, and a reference section for use by practicing clinicians in reading medical literature and performing their own research. The book does not require a

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significant level of
mathematical
knowledge and
couches the methods
in multiple examples
drawn from clinical
medicine, giving it
applicable context.
Easy-to-follow format
incorporates medical
examples, step-by-
step methods, and
check yourself

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exercises Two-part
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material and a
professional reference
section Chapter
summaries provide a
review of formulas,
method algorithms,
and check lists
Companion site links
to statistical databases
that can be
downloaded and used

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to perform the
exercises from the
book and practice
statistical methods
New in this Edition:
New chapters on:
multifactor tests on
means of continuous
data, equivalence
testing, and advanced
methods New topics
include: trial
randomization,

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treatment ethics in
medical research,
imputation of missing
data, and making
evidence-based
medical decisions
Updated database
coverage and
additional exercises
Expanded coverage of
numbers needed to
treat and to benefit,
and regression

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analysis including
stepwise regression
and Cox regression
Thorough discussion
on required sample
size

A fully updated
edition of this key text
on mixed models,
focusing on
applications in
medical research The
application of mixed

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models is an increasingly popular way of analysing medical data, particularly in the pharmaceutical industry. A mixed model allows the incorporation of both fixed and random variables within a statistical analysis, enabling efficient

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inferences and more information to be gained from the data. There have been many recent advances in mixed modelling, particularly regarding the software and applications. This third edition of Brown and Prescott's groundbreaking text provides an update on

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the latest developments, and includes guidance on the use of current SAS techniques across a wide range of applications. Presents an overview of the theory and applications of mixed models in medical research, including the latest developments

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and new sections on incomplete block designs and the analysis of bilateral data. Easily accessible to practitioners in any area where mixed models are used, including medical statisticians and economists. Includes numerous examples using real data from

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medical and health
research, and
epidemiology,
illustrated with SAS
code and output.
Features the new
version of SAS,
including new
graphics for model
diagnostics and the
procedure PROC
MCMC. Supported by
a website featuring

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computer code, data sets, and further material. This third edition will appeal to applied statisticians working in medical research and the pharmaceutical industry, as well as teachers and students of statistics courses in mixed models. The book will also be of

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great value to a broad
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range of scientists,

particularly those

working in the

medical and

pharmaceutical areas.

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Rates and Proportions

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Resampling Methods
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The R Book

Data and Models

Choosing and

Using Statistics

remains an

invaluable guide

for students

using a computer

package to

analyse data from

research projects

and practical

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class work. The text takes a pragmatic approach to statistics with a strong focus on what is actually needed. There are chapters giving useful advice on the basics of statistics and

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guidance on the presentation of data. The book is built around a key to selecting the correct statistical test and then gives clear guidance on how to carry out the test and interpret the output from four

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commonly used
computer

packages: SPSS,
Minitab, Excel,
and (new to this
edition) the free
program, R. Only
the basics of
formal statistics
are described and
the emphasis is
on jargon-free
English but any

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unfamiliar words
can be looked up
in the extensive
glossary. This
new 3rd edition
of Choosing and
Using Statistics is
a must for all
students who use
a computer
package to apply
statistics in
practical and

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project work.

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Features new to

this edition: Now

features

information on

using the popular

free program, R

Uses a simple key

and flow chart to

help you choose

the right

statistical test

Aimed at

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students using
statistics for
projects and in
practical classes
Includes an
extensive
glossary and key
to symbols to
explain any
statistical jargon
No previous
knowledge of
statistics is

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assumed

This is the first
text in a
generation to re-
examine the
purpose of the
mathematical
statistics course.
The book's
approach
interweaves
traditional topics
with data

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analysis and reflects the use of the computer with close ties to the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The

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book's
descriptive
statistics,
graphical
displays, and
realistic
applications
stand in strong
contrast to
traditional texts
that are set in
abstract settings.
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statistics and
graphics. R
provides free
access to
unrivalled
coverage and
cutting-edge
applications,
enabling the user
to apply
numerous
statistical
methods ranging

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examples,
providing an all
inclusive guide to
R, ideal for
novice and more
accomplished
users alike. The
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background in
statistics or
computing and
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tests such as chi-
square and t-test.
Proceeds to
examine more
advance

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methods, from regression and analysis of variance, through to generalized linear models, generalized mixed models, time series, spatial statistics, multivariate statistics and much more. The

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at
undergraduates,
postgraduates
and professionals
in science,
engineering and
medicine. It is
also ideal for
students and
professionals in
statistics,
economics,

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geography and
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An Introduction
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Concepts
With Exercises,
Solutions and
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Richard De
Veaux, Paul

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Using Statistics
A Model
Comparison
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**introduction to
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**offering a wide
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**that emphasize
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studies,
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level of
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Students are
required to be**

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applying
different
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methods; new
examples and
datasets using
current real-**

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between
regression and
the Analysis of
the Variance;
new material on
generalized**

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new expansion
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techniques; new
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research
projects; and
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studies for
gathering,
summarizing,**

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data. Integrates**

the classical

conceptual

approach with

modern day

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manipulation

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may not have a
background in
probability or
calculus Offers
reader-friendly
exposition,
without
sacrificing
statistical rigor
Includes many
new data sets in**

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**various applied
fields such as**

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Agriculture,
Economics**

**This book
emphasizes the
statistical
concepts and
assumptions**

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**necessary to
describe and
make inferences
about real data.
Throughout the
book the
authors
encourage the
reader to plot
and examine
their data, find
confidence**

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**intervals, use
power analyses
to determine
sample size, and
calculate effect
sizes. The goal
is to ensure the
reader
understands the
underlying logic
and
assumptions of**

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**the analysis and
what it tells
them, the
limitations of
the analysis,
and the possible
consequences of
violating
assumptions.
The simpler,
less abstract
discussion of**

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**analysis of
variance is
presented prior
to developing
the more
general model.
A concern for
alternatives to
standard
analyses allows
for the
integration of**

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**alternative
procedures
within the
research
context to which
they apply.
Basic concepts,
such as
sampling
distributions,
expected mean
squares, design**

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**efficiency, and
statistical
models are
emphasized
throughout. This
approach
provides a
stronger
conceptual
foundation in
order to help
the reader**

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**generalize the
concepts to new
situations they
will encounter in
their research
and to better
understand the
advice of
statistical
consultants and
the content of
articles using**

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methodology.
The second
edition features
a greater
emphasis on
graphics,
confidence
intervals,
measures of
effect size,
power analysis,**

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contrasts,
elementary
probability,
correlation, and
regression. A
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contains several
real and
artificial data
sets used in the
book in SPSS,**

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book. An
Instructor's
Solutions
Manual,
containing the
intermediate
steps to all of
the text**

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the bound book.
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Edition, will
intrigue and
challenge
students by
encouraging**

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them to think statistically and by emphasizing how statistics helps us understand the world. Praised by students and instructors alike for its readability and ease of

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**comprehension,
this text focuses
on statistical
thinking and
data analysis.**

**The authors
draw from their
wealth of
consulting
experience to
craft compelling
examples, which**

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**encourage
students to
learn how to
reason with
data. This book
is organized
into short
chapters that
concentrate on
one topic at a
time, offering
instructors**

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maximum flexibility in planning their courses. The book is appropriate for a one-or-two semester introductory statistics course and includes advanced

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**topics, such as
Analysis of
Variance
(ANOVA),
Multiple
Regression, and
Nonparametrics.
Datasets and
other resources
(where
applicable) for
this book are**

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and confidence
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modeling.
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today's model-
based statistics,
the book pushes
readers to
perform step-by-
step
calculations that
are usually
automated. This
unique**

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approach
ensures that
readers
understand
enough of the
details to make
reasonable
choices and
interpretations
in their own
modeling work.**

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**The text
presents
generalized
linear multilevel
models from a
Bayesian
perspective,
relying on a
simple logical
interpretation of
Bayesian
probability and**

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**maximum
entropy. It
covers from the
basics of
regression to
multilevel
models. The
author also
discusses
measurement
error, missing
data, and**

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process models
for spatial and
network
autocorrelation.
By using
complete R code
examples
throughout, this
book provides a
practical
foundation for**

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statistical
inference.
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both PhD
students and
seasoned
professionals in
the natural and
social sciences,
it prepares
them for more**

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**advanced or
specialized
statistical
modeling. Web
Resource The
book is
accompanied by
an R package
(rethinking)
that is available
on the author's
website and**

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GitHub. The two core functions (map and map2stan) of this package allow a variety of statistical models to be constructed from standard model formulas. Statistical

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intrigue and
challenge
students by
encouraging
them to think*

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*statistically
and by*

*emphasizing how
statistics
helps us
understand the
world. Praised
by students and
instructors
alike for its
readability and
ease of
comprehension,*

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*this text
focuses on
statistical
thinking and
data analysis.
The authors
draw from their
wealth of
consulting
experience to
craft
compelling
examples, which*

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*encourages
students to
learn how to
reason with
data. This book
is organized
into short
chapters that
concentrate on
one topic at a
time, offering
instructors
maximum*

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planning their
courses. The
text is
appropriate for
a one-or-two
semester
introductory
statistics
course and
includes
advanced
topics, such as*

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Variance
(ANOVA),
Multiple
Regression, and
Nonparametrics.
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to Statistical
Learning
provides an
accessible
overview of the
field of*

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learning, an
essential
toolset for
making sense of
the vast and
complex data
sets that have
emerged in
fields ranging
from biology to
finance to
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the past twenty
years. This
book presents
some of the
most important
modeling and
prediction
techniques,
along with
relevant
applications.
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regression,
classification,
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methods,
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approaches,
tree-based
methods,
support vector
machines,
clustering, and
more. Color*

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*graphics and
real-world
examples are
used to
illustrate the
methods
presented.
Since the goal
of this
textbook is to
facilitate the
use of these
statistical*

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learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R,

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platform. Two
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(Hastie,
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many of the
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mathematics,
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using R
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statistical
analysis.
You'll start
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how to handle
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programs,
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programming in
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functions, and
use variables,
statements, and
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concepts like*

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data analysis,
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coherent whole.*

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comparison
approach better
prepares students
to understand the
logic behind a
general strategy of
data analysis
appropriate for
various designs;
and builds a
stronger**

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the applications of
the material;
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develop a deeper
understanding of
the subject.**

**Detailed solutions
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some of the
exercises and
*realistic data sets
allow the reader to
see an analysis of
data from each**

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to measures of
effects, including
confidence
intervals, strength
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and the graphical
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chapters (15 & 16)
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focus on developing

their conceptual

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features of the
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around the world,
and offers examples
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ontologies that**

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courses. The

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and a little

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are a function
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struggle with

this problem

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teaching

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who want to
accomplish
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that are no

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tools in our
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age and
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learning how
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effectively
(to employers
as well as
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students not
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data has increased

dramatically,

particularly for

applications in the

biomedical and

social sciences.

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summarizes these

methods and

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shows readers
how to use them
using software.

Readers will find a
unified generalized
linear models
approach that
connects logistic
regression and
loglinear models
for discrete data
with normal
regression for

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continuous data.
Adding to the
value in the new
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Illustrations of the
use of R software
to perform all the
analyses in the
book • A new
chapter on
alternative
methods for
categorical data,

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including
smoothing and
regularization
methods (such as
the lasso),
classification
methods such as
linear discriminant
analysis and
classification
trees, and cluster
analysis • New
sections in many

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chapters
introducing the
Bayesian
approach for the
methods of that
chapter • More
than 70 analyses
of data sets to
illustrate
application of the
methods, and
about 200
exercises, many

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containing other data sets • An appendix showing how to use SAS, Stata, and SPSS, and an appendix with short solutions to most odd-numbered exercises Written in an applied, nontechnical style, this book

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illustrates the methods using a wide variety of real data, including medical clinical trials, environmental questions, drug use by teenagers, horseshoe crab mating, basketball shooting, correlates of

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happiness, and much more. An Introduction to Categorical Data Analysis, Third Edition is an invaluable tool for statisticians and biostatisticians as well as methodologists in the social and behavioral

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concepts and tools needed to develop and nurture statistical thinking. It presents descriptive, inductive and explorative statistical methods and guides the reader through the process of quantitative data analysis. In the experimental sciences and interdisciplinary research, data

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analysis has become an integral part of any scientific study.

Issues such as judging the credibility of data, analyzing the data, evaluating the reliability of the obtained results and finally drawing the correct and appropriate conclusions from the results are vital. The

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text is primarily intended for undergraduate students in disciplines like business administration, the social sciences, medicine, politics, macroeconomics, etc. It features a wealth of examples, exercises and solutions with computer code in the statistical

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programming
language R as well as
supplementary
material that will
enable the reader to
quickly adapt all
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perspective before
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Presentations of
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huge data sets and
transform them into
valuable knowledge

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interpret statistical
charts and tables with
Excel or

OpenOffice.org Calc 3

Work with mean,
median, mode,
standard deviation, Z
scores, skewness,
and other descriptive

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statistics Use
probability and
probability
distributions Work
with sampling
distributions and
confidence intervals
Test hypotheses with
Z, t, chi-square,
ANOVA, and other
techniques Perform
powerful regression
analysis and modeling
Use multiple

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regression to develop
models that contain
several independent
variables Master
specific statistical
techniques for quality
and Six Sigma
programs Hate math?
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picture understanding

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qualitative methods
for social inquiry—one
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analysis from the very
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