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individual statistical tools, but the art of data analysis is about choosing and using multiple tools. Instead of presenting isolated techniques, this text emphasizes problem solving strategies that address the many issues arising when

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developing
multivariable models
using real data and
not standard

textbook examples.

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imputation methods
for dealing with
missing data

effectively, methods
for dealing with

nonlinear

relationships and for

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making the
estimation of
transformations a
formal part of the
modeling process,
methods for dealing
with "too many
variables to analyze
and not enough
observations," and
powerful model
validation
techniques based

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on the bootstrap.

This text realistically
deals with model

uncertainty and its
effects on inference
to achieve "safe
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approach with
numerous
examples, the
second edition of
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categorical analysis
methods and
emphasize specific
research questions
that can be
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analytic procedure,
including how to
obtain results using
SPSS, SAS, and R,
so that readers are
able to address the

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research questions they wish to answer. Each chapter begins with a "Look Ahead" section to highlight key content. This is followed by an in-depth focus and explanation of the relationship between the initial research question, the use of software

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to perform the
analyses, and how
to interpret the
output substantively.

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a range of software
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questions to test
knowledge. New to
the second edition:
The addition of R
syntax for all

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analyses and an
update of SPSS and
SAS syntax. The
addition of a new
chapter on GLMMs.
Clarification of
concepts and ideas
that graduate
students found
confusing, including
revised problems at
the end of the
chapters. Written for

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those without an
extensive

mathematical

background, this

book is ideal for a

graduate course in

categorical data

analysis taught in

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psychology,

educational

psychology, human

development and

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family studies,
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applying these
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appreciate this
book ' s accessible
approach.

Categorical

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data analyses
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sparse statistical
model has only a
small number of
nonzero parameters
or weights;
therefore, it is much

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easier to estimate
and interpret than a
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experts in this

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rapidly evolving
field, the authors
describe the lasso
for linear regression
and a simple
coordinate descent
algorithm for its
computation. They
discuss the
application of l_1
penalties to
generalized linear
models and support

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vector machines,
cover generalized
penalties such as
the elastic net and
group lasso, and
review numerical
methods for
optimization. They
also present
statistical inference
methods for fitted
(lasso) models,
including the

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bootstrap, Bayesian methods, and recently developed approaches. In addition, the book examines matrix decomposition, sparse multivariate analysis, graphical models, and compressed sensing. It concludes with a

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survey of theoretical
results for the lasso.

In this age of big
data, the number of
features measured
on a person or
object can be large
and might be larger
than the number of
observations. This
book shows how the
sparsity assumption
allows us to tackle

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how generalised linear modelling procedures can be used in many different fields, without becoming entangled in problems of statistical inference. The author shows the unity of many of the commonly used

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models and provides readers with a taste of many different areas, such as survival models, time series, and spatial analysis, and of their unity. As such, this book will appeal to applied statisticians and to scientists having a

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basic grounding in modern statistics. With many exercises at the end of each chapter, it will equally constitute an excellent text for teaching applied statistics students and non- statistics majors. The reader is assumed to have

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knowledge of basic statistical principles, whether from a Bayesian, frequentist, or direct likelihood point of view, being familiar at least with the analysis of the simpler normal linear models, regression and

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ANOVA.

Despite the recent rapid growth in machine learning and predictive analytics, many of the statistical questions that are faced by researchers and practitioners still involve explaining why

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something is
happening.

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Regression analysis
is the best 'swiss
army knife' we
have for answering
these kinds of
questions. This book
is a learning
resource on
inferential statistics
and regression

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analysis. It teaches how to do a wide range of statistical analyses in both R and in Python, ranging from simple hypothesis testing to advanced multivariate modelling. Although it is primarily focused on

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examples related to the analysis of people and talent, the methods easily transfer to any discipline. The book hits a 'sweet spot' where there is just enough

mathematical theory to support a strong understanding of

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the methods, but
with a step-by-step
guide and easily
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examples and code,
so that the methods
can be put into
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immediately. This
makes the book
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This is a self-contained companion volume to the author's book "Plane Answers to Complex Questions: The Theory of Linear Models". It provides introductions to several topics related to linear

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model theory:
multivariate linear
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models,
discriminant

analysis, principal
components, factor
analysis, time series
in both the
frequency and time
domains, and
spatial data analysis
(geostatistics). The

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purpose of this volume is to use three fundamental ideas from linear model theory and exploit their properties in examining multivariate, time series and spatial data. The three ideas are: best

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linear prediction,
projections, and
Mahalanobis'
distance.

Multivariate linear
models are viewed
as linear models
with a nondiagonal
covariance matrix.

Discriminant
analysis is related to
the Mahalanobis

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distance and
multivariate
analysis of variance.
Principle

components are best
linear predictors.

Frequency domain
time series involves
linear models with a
peculiar design
matrix. Time
domain analysis

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involves models that are linear in the parameters but have random design matrices. Best linear predictors are used for forecasting time series and for estimation in time domain analysis. Spatial data analysis involves linear

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models in which the covariance matrix is modeled from the data and making best linear unbiased predictions of future observables. This book develops a unified approach to this wide ranging collection of problems. Ronald

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Christensen is Professor of Statistics at the University of New Mexico. He is recognized internationally as an expert in the theory and application of linear models. In addition to this book and

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"Plane Answers,"
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treatment of basic statistical methods and their applications. It focuses on the analysis of variance and regression, but also addressing basic ideas in experimental design and count data. The book has four connecting themes: similarity of inferential procedures, balanced one-way analysis of

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variance, comparison of
models, and checking
assumptions. Most
inferential procedures
are based on identifying
a scalar parameter of
interest, estimating that
parameter, obtaining
the standard error of the
estimate, and identifying
the appropriate
reference distribution.
Given these items, the
inferential procedures

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are identical for various parameters. Balanced one-way analysis of variance has a simple, intuitive interpretation in terms of comparing the sample variance of the group means with the mean of the sample variance for each group. All balanced analysis of variance problems are considered in terms of

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computing sample
variances for various
group means.

Comparing different
models provides a
structure for examining
both balanced and
unbalanced analysis of
variance problems and
regression problems.
Checking assumptions is
presented as a crucial
part of every statistical
analysis. Examples

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plot design with four
factors are included.

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undergraduate and
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ordinal regression,
Poisson regression, and
loglinear models. The
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and exercises
feature real
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research
questions; thus,
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about the
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data into a
linear model for
the data. The
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analyzes small
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