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*Learning Econometrics
Using Gauss Rar*

**This book offers a unified
approach to the study of
crises, large fluctuations,
dependence and contagion**

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effects in economics and finance. It covers important topics in statistical modeling and estimation, which combine the notions of copulas and heavy tails -- two particularly valuable

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**tools of today's research in
economics, finance,
econometrics and other
fields -- in order to provide
a new way of thinking
about such vital problems
as diversification of risk**

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and propagation of crises through financial markets due to contagion phenomena, among others. The aim is to arm today's economists with a toolbox suited for analyzing

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multivariate data with many outliers and with arbitrary dependence patterns. The methods and topics discussed and used in the book include, in particular, majorization

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theory, heavy-tailed distributions and copula functions -- all applied to study robustness of economic, financial and statistical models, and estimation methods to

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**heavy tails and
dependence.**

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these works by making them available to future generations of statisticians, mathematicians, and scientists. From the Reviews of Nonlinear Regression "A very good

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book and an important one in that it is likely to become a standard reference for all interested in nonlinear regression; and I would imagine that any statistician concerned with

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**nonlinear regression would
want a copy on his
shelves." -The Statistician
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compilation of this material**

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and cross-referencing of it is one of the most valuable aspects of the book.

Nonlinear Regression can provide the researcher unfamiliar with a particular specialty area of nonlinear

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**regression an introduction
to that area of nonlinear
regression and access to
the appropriate references
. . . Nonlinear Regression
provides by far the
broadest discussion of**

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**nonlinear regression
models currently available
and will be a valuable
addition to the library of
anyone interested in
understanding and using
such models including the**

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**statistical researcher."
-Mathematical Reviews
Emphasising computational
skills and problem solving
rather than mathematical
theory, this book
introduces a unit circle**

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**approach to trigonometry
and can be used in one or
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algebra with trig or
precalculus courses. It
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mathematical tools an**

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Reynolds, University of
Bradford “Excellent book**

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**on calculus with several
economic applications”
Mauro Bambi, University of
York New to this edition:
The introductory chapters
have been restructured to
more logically fit with**

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teaching. Several new exercises have been introduced, as well as fuller solutions to existing ones. More coverage of the history of mathematical and economic ideas has

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**been added, as well as of
the scientists who
developed them. New
example based on the 2014
UK reform of housing
taxation illustrating how a
discontinuous function can**

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have significant economic consequences. The associated material in MyMathLab has been expanded and improved. Knut Sydsaeter was Emeritus Professor of

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**Mathematics in the
Economics Department at
the University of Oslo,
where he had taught
mathematics for
economists for over 45
years. Peter Hammond is**

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**currently a Professor of
Economics at the University
of Warwick, where he
moved in 2007 after
becoming an Emeritus
Professor at Stanford
University. He has taught**

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**mathematics for
economists at both
universities, as well as at
the Universities of Oxford
and Essex. Arne Strom is
Associate Professor
Emeritus at the University**

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**of Oslo and has extensive
experience in teaching
mathematics for
economists in the
Department of Economics
there. Andrés Carvajal is an
Associate Professor in the**

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**Department of Economics
at University of California,
Davis.**

**Data Integration,
Manipulation and
Visualization of
Phylogenetic Trees**

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**Planetary Remote Sensing
and Mapping
Continuous Responses,
Third Edition
Dynamic Economics
Statistical Analysis of
Network Data with R**

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Paul Lévy and Maurice Fréchet

An introduction to foundations and applications for quantitatively oriented graduate social-science students and individual researchers.

"Asymmetric Dependence (hereafter, AD) is usually thought of as a cross-

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sectional phenomenon. Andrew Patton describes AD as "stock returns appear to be more highly correlated during market downturns than during market upturns." (Patton, 2004) Thus at a point in time when the market return is increasing we might expect to find the

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correlation between any two stocks to be, on average, lower than the correlation between those same two stocks when the market return is negative. However the term can also have a time series interpretation. Thus it may be that the impact of the current US market on the future UK

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market may be quantitatively different from the impact of the current UK market on the future US market. This is also a notion of AD that occurs through time. Whilst most of this book addresses the former notion of AD, time-series AD is explored in Chapters Four and

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Seven"--

Spectral estimation is important in many fields including astronomy, meteorology, seismology, communications, economics, speech analysis, medical imaging, radar, sonar, and underwater acoustics. Most existing spectral estimation

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algorithms are devised for uniformly sampled complete-data sequences. However, the spectral estimation for data sequences with missing samples is also important in many applications ranging from astronomical time series analysis to synthetic aperture radar imaging

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with angular diversity. For spectral estimation in the missing-data case, the challenge is how to extend the existing spectral estimation techniques to deal with these missing-data samples. Recently, nonparametric adaptive filtering based techniques have been

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developed successfully for various missing-data problems. Collectively, these algorithms provide a comprehensive toolset for the missing-data problem based exclusively on the nonparametric adaptive filter-bank approaches, which are robust and accurate, and

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can provide high resolution and low sidelobes. In this book, we present these algorithms for both one-dimensional and two-dimensional spectral estimation problems.

This book is a companion volume to Essential Mathematics for Economic Analysis by Knut Sydsaeter and Peter

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Hammond. The new book is intended for advanced undergraduate and graduate students of economics whose requirements go beyond the material usually taught in undergraduate mathematics courses for economists. It presents most of the mathematical tools that are

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*required for advanced courses in
economic theory - both micro and
macro.*

*Longitudinal and Panel Data
Regression*

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Linear Models in Statistics

A Short History of Mathematical

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Population Dynamics

Calculus With Applications

Discover the latest developments and current practices in survey sampling Survey sampling is an important component of research in many fields, and as the

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importance of survey sampling continues to grow, sophisticated sampling techniques that are both economical and scientifically reliable are essential to planning statistical research and the design of

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experiments. Sampling Statistics presents estimation techniques and sampling concepts to facilitate the application of model-based procedures to survey samples. The book begins with an introduction to standard

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probability sampling concepts, which provides the foundation for studying samples selected from a finite population. The development of the theory of complex sampling methods is detailed, and subsequent

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chapters explore the construction of estimators, sample design, replication variance estimation, and procedures such as nonresponse adjustment and small area estimation where models play a key role. A final

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chapter covers analytic studies in which survey data are used for the estimation of parameters for a subject matter model. The author draws upon his extensive experience with survey samples in the book's numerous

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examples. Both the production of "general use" databases and the analytic study of a limited number of characteristics are discussed. Exercises at the end of each chapter allow readers to test their comprehension of the

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presented concepts and techniques, and the references provide further resources for study. Sampling Statistics is an ideal book for courses in survey sampling at the graduate level. It is also a valuable reference for

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practicing statisticians who analyze survey data or are involved in the design of sample surveys.

A comprehensive guide to statistical hypothesis testing with examples in SAS and R When

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analyzing datasets the following questions often arise: Is there a short hand procedure for a statistical test available in SAS or R? If so, how do I use it? If not, how do I program the test myself? This book answers

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these questions and provides an overview of the most common statistical test problems in a comprehensive way, making it easy to find and perform an appropriate statistical test. A general summary of statistical

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test theory is presented, along with a basic description for each test, including the necessary prerequisites, assumptions, the formal test problem and the test statistic. Examples in both SAS and R are provided, along with

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program code to perform the test, resulting output and remarks explaining the necessary program parameters.

Key features:

- Provides examples in both SAS and R for each test presented.
- Looks at

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the most common statistical tests, displayed in a clear and easy to follow way. • Supported by a supplementary website <http://www.d-taeger.de> featuring example program code.

Academics, practitioners and

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SAS and R programmers will find this book a valuable resource.

Students using SAS and R will also find it an excellent choice for reference and data analysis.

This book brings the power of multivariate statistics to graduate-

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level practitioners, making these analytical methods accessible without lengthy mathematical derivations. Using the open source, shareware program R, Professor Zelterman demonstrates the process and

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outcomes for a wide array of multivariate statistical applications. Chapters cover graphical displays, linear algebra, univariate, bivariate and multivariate normal distributions, factor methods, linear

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regression, discrimination and classification, clustering, time series models, and additional methods. Zelterman uses practical examples from diverse disciplines to welcome readers from a variety of academic

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specialties. Those with backgrounds in statistics will learn new methods while they review more familiar topics. Chapters include exercises, real data sets, and R implementations. The data are

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interesting, real-world topics, particularly from health and biology-related contexts. As an example of the approach, the text examines a sample from the Behavior Risk Factor Surveillance System, discussing

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both the shortcomings of the data as well as useful analyses. The text avoids theoretical derivations beyond those needed to fully appreciate the methods. Prior experience with R is not necessary.

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Econometrics: A Modern
Introduction conditions students
to think like econometricians
right from the start by opening
with a unique Monte Carlo
exercise, and connects
econometrics to economic theory

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through a series of exemplary
econometric analyses presented
throughout the text.

instructor's manual

Contemporary Linear Algebra
R for Marketing Research and
Analytics

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Twelve Years a Slave
Topics in Dependence Modelling
in Economics and Finance
Econometrics

*This book has taken form over
several years as a result of a
number of courses taught at the*

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*University of Pennsylvania and at
Columbia University and a series
of lectures I have given at the
International Monetary Fund.
Indeed, I began writing down my
notes systematically during the
academic year 1972-1973 while*

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at the University of California, Los Angeles. The diverse character of the audience, as well as my own conception of what an introductory and often terminal acquaintance with formal econometrics ought to

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encompass, have determined the style and content of this volume. The selection of topics and the level of discourse give sufficient variety so that the book can serve as the basis for several types of courses. As an example,

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a relatively elementary one-semester course can be based on Chapters one through five, omitting the appendices to these chapters and a few sections in some of the chapters so indicated. This would acquaint

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the student with the basic theory of the general linear model, some of the problems often encountered in empirical research, and some proposed solutions. For such a course, I should also recommend a brief

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*excursion into Chapter seven
(logit and pro bit analysis) in view
of the increasing availability of
data sets for which this type of
analysis is more suitable than
that based on the general linear
model.*

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The fascinating correspondence between Paul Lévy and Maurice Fréchet spans an extremely active period in French mathematics during the twentieth century. The letters of these two Frenchmen show their

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vicissitudes of research and passionate enthusiasm for the emerging field of modern probability theory. The letters cover various topics of mathematical importance including academic careers and

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professional travels, issues concerning students and committees, and the difficulties both mathematicians met to be elected to the Paris Academy of Sciences. The technical questions that occupied Lévy and

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Fréchet on almost a daily basis are the primary focus of these letters, which are charged with elation, frustration and humour. Their mathematical victories and setbacks unfolded against the dramatic backdrop of the two

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World Wars and the occupation of France, during which Lévy was obliged to go into hiding. The clear and persistent desire of these mathematicians to continue their work whatever the circumstance testifies to the

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enlightened spirit of their discipline which was persistent against all odds. The book contains a detailed and comprehensive introduction to the central topics of the correspondence. The original text

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of the letters is also annotated by numerous footnotes for helpful guidance. Paul Lévy and Maurice Fréchet will be useful to anybody interested in the history of mathematics in the twentieth century and, in particular, the

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*birth of modern probability
theory.*

*For courses in Introductory
Econometrics Engaging
applications bring the theory and
practice of modern econometrics
to life. Ensure students grasp the*

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*relevance of econometrics with
Introduction to Econometrics—the
text that connects modern theory
and practice with motivating,
engaging applications. The Third
Edition Update maintains a focus
on currency, while building on the*

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*philosophy that applications should drive the theory, not the other way around. This program provides a better teaching and learning experience—for you and your students. Here's how:
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MyEconLab—recommendations to help students better prepare for class, quizzes, and exams—and ultimately achieve improved comprehension in the course.

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This book is devoted to the*

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application of fractional calculus in economics to describe processes with memory and non-locality. Fractional calculus is a branch of mathematics that studies the properties of differential and integral operators

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that are characterized by real or complex orders. Fractional calculus methods are powerful tools for describing the processes and systems with memory and nonlocality. Recently, fractional integro-

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differential equations have been used to describe a wide class of economical processes with power law memory and spatial nonlocality. Generalizations of basic economic concepts and notions the economic processes

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with memory were proposed. New mathematical models with continuous time are proposed to describe economic dynamics with long memory. This book is a collection of articles reflecting the latest mathematical and

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*conceptual developments in
mathematical economics with
memory and non-locality based
on applications of fractional
calculus.*

*Applied Econometric Times
Series*

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Sampling Statistics

*Diversification, Correlation and
Portfolio Management in Market
Downturns*

*Mittag-Leffler Functions, Related
Topics and Applications*

Introductory Econometrics

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Nonlinear Regression

An integrated approach to the empirical application of dynamic optimization programming models, for students and researchers. This book

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is an effective, concise text for students and researchers that combines the tools of dynamic programming with numerical techniques and simulation-based

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econometric methods.
Doing so, it bridges the
traditional gap between
theoretical and
empirical research and
offers an integrated
framework for studying

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applied problems in macroeconomics and microeconomics. In part I the authors first review the formal theory of dynamic optimization; they then present the

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numerical tools and
econometric techniques
necessary to evaluate
the theoretical models.
In language accessible
to a reader with a
limited background in

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econometrics, they explain most of the methods used in applied dynamic research today, from the estimation of probability in a coin flip to a complicated

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nonlinear stochastic structural model. These econometric techniques provide the final link between the dynamic programming problem and data. Part II is devoted

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to the application of
dynamic programming to
specific areas of
applied economics,
including the study of
business cycles,
consumption, and

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investment behavior. In each instance the authors present the specific optimization problem as a dynamic programming problem, characterize the optimal

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policy functions,
estimate the parameters,
and use models for
policy evaluation. The
original contribution of
Dynamic Economics:
Quantitative Methods and

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Applications lies in the integrated approach to the empirical application of dynamic optimization programming models. This integration shows that empirical

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applications actually
complement the
underlying theory of
optimization, while
dynamic programming
problems provide needed
structure for estimation

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and policy evaluation.

This book is a complete introduction to the power of R for marketing research practitioners.

The text describes statistical models from

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a conceptual point of view with a minimal amount of mathematics, presuming only an introductory knowledge of statistics. Hands-on chapters accelerate the

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learning curve by asking readers to interact with R from the beginning.

Core topics include the R language, basic statistics, linear modeling, and data

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visualization, which is presented throughout as an integral part of analysis. Later chapters cover more advanced topics yet are intended to be approachable for

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all analysts. These sections examine logistic regression, customer segmentation, hierarchical linear modeling, market basket analysis, structural

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equation modeling, and
conjoint analysis in R.

The text uniquely
presents Bayesian models
with a minimally complex
approach, demonstrating
and explaining Bayesian

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methods alongside traditional analyses for analysis of variance, linear models, and metric and choice-based conjoint analysis. With its emphasis on data

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visualization, model
assessment, and
development of
statistical intuition,
this book provides
guidance for any analyst
looking to develop or

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improve skills in R for
marketing applications.
As a result of
researchers' and
scientists' increasing
interest in pure as well
as applied mathematics

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in non-conventional models, particularly those using fractional calculus, Mittag-Leffler functions have recently caught the interest of the scientific

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community. Focusing on the theory of the Mittag-Leffler functions, the present volume offers a self-contained, comprehensive treatment, ranging from rather

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elementary matters to the latest research results. In addition to the theory the authors devote some sections of the work to the applications, treating

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various situations and processes in viscoelasticity, physics, hydrodynamics, diffusion and wave phenomena, as well as stochastics. In

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particular the Mittag-Leffler functions allow us to describe phenomena in processes that progress or decay too slowly to be represented by classical functions

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like the exponential function and its successors. The book is intended for a broad audience, comprising graduate students, university instructors

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and scientists in the field of pure and applied mathematics, as well as researchers in applied sciences like mathematical physics, theoretical chemistry,

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bio-mathematics, theory
of control and several
other related areas.

Surveys the theory and
history of the
alternating direction
method of multipliers,

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and discusses its applications to a wide variety of statistical and machine learning problems of recent interest, including the lasso, sparse logistic

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regression, basis
pursuit, covariance
selection, support
vector machines, and
many others.

Introduction to
Econometrics

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Distributed Optimization
and Statistical Learning
Via the Alternating
Direction Method of
Multipliers
Multilevel and
Longitudinal Modeling

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Using Stata
Quantitative Methods and
Applications
Simulation and the Monte
Carlo Method
Methodology, Tools and
Applications

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Whether you are new to Stata graphics or a seasoned veteran, *A Visual Guide to Stata Graphics, Second Edition* will teach you how to use Stata to make publication-quality

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graphs that will stand out and enhance your statistical results. With over 900 illustrated examples and quick-reference tabs, this book quickly guides you to the

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information you need for creating and customizing high-quality graphs for any types of statistical data.

This accessible new edition explores the major

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topics in Monte Carlo simulation that have arisen over the past 30 years and presents a sound foundation for problem solving Simulation and the Monte Carlo Method, Third

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Edition reflects the latest developments in the field and presents a fully updated and comprehensive account of the state-of-the-art theory, methods and applications that have

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emerged in Monte Carlo simulation since the publication of the classic First Edition over more than a quarter of a century ago. While maintaining its accessible

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and intuitive approach,
this revised edition
features a wealth of up-to-
date information that
facilitates a deeper
understanding of problem
solving across a wide

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array of subject areas, such as engineering, statistics, computer science, mathematics, and the physical and life sciences. The book begins with a modernized

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introduction that addresses the basic concepts of probability, Markov processes, and convex optimization. Subsequent chapters discuss the dramatic

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changes that have occurred
in the field of the Monte
Carlo method, with
coverage of many modern
topics including: Markov
Chain Monte Carlo,
variance reduction

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techniques such as
importance (re-)sampling,
and the transform
likelihood ratio method,
the score function method
for sensitivity analysis,
the stochastic

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approximation method and
the stochastic counter-
part method for Monte
Carlo optimization, the
cross-entropy method for
rare events estimation and
combinatorial

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optimization, and application of Monte Carlo techniques for counting problems. An extensive range of exercises is provided at the end of each chapter, as well as a

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generous sampling of applied examples. The Third Edition features a new chapter on the highly versatile splitting method, with applications to rare-event estimation,

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counting, sampling, and optimization. A second new chapter introduces the stochastic enumeration method, which is a new fast sequential Monte Carlo method for tree

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search. In addition, the Third Edition features new material on:

- Random number generation, including multiple-recursive generators and the Mersenne Twister •

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Simulation of Gaussian processes, Brownian motion, and diffusion processes • Multilevel Monte Carlo method • New enhancements of the cross-entropy (CE) method,

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including the “improved”
CE method, which uses
sampling from the zero-
variance distribution to
find the optimal
importance sampling
parameters • Over 100

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algorithms in modern
pseudo code with flow
control • Over 25 new
exercises Simulation and
the Monte Carlo Method,
Third Edition is an
excellent text for upper-

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undergraduate and beginning graduate courses in stochastic simulation and Monte Carlo techniques. The book also serves as a valuable reference for

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professionals who would like to achieve a more formal understanding of the Monte Carlo method. Reuven Y. Rubinstein, DSc, was Professor Emeritus in the Faculty of Industrial

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Engineering and Management
at Technion-Israel
Institute of Technology.
He served as a consultant
at numerous large-scale
organizations, such as
IBM, Motorola, and NEC.

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The author of over 100 articles and six books, Dr. Rubinstein was also the inventor of the popular score-function method in simulation analysis and generic cross-

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entropy methods for combinatorial optimization and counting. Dirk P. Kroese, PhD, is a Professor of Mathematics and Statistics in the School of Mathematics and

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Physics of The University
of Queensland, Australia.
He has published over 100
articles and four books in
a wide range of areas in
applied probability and
statistics, including

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Monte Carlo methods, cross-entropy, randomized algorithms, tele-traffic theory, reliability, computational statistics, applied probability, and stochastic modeling.

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Burstein, and Lax's
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meaningful explanations of
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Written with students in

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mathematics, the physical sciences, and engineering in mind, and revised with their help, it shows that the themes of calculation, approximation, and modeling are central to

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mathematics and the main ideas of single variable calculus. This edition brings the innovation of the first edition to a new generation of students. New sections in this book

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use simple, elementary
examples to show that when
applying calculus concepts
to approximations of
functions, uniform
convergence is more
natural and easier to use

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than point-wise convergence. As in the original, this edition includes material that is essential for students in science and engineering, including an elementary

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introduction to complex numbers and complex-valued functions, applications of calculus to modeling vibrations and population dynamics, and an introduction to

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probability and
information theory.

Noted for its integration
of real-world data and
case studies, this text
offers sound coverage of
the theoretical aspects of

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mathematical statistics.

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simultaneous inference The book is complemented with easy-to-read proofs, real data sets, and an extensive bibliography. A thorough review of the requisite matrix algebra has been added for transitional purposes, and numerous theoretical and applied

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problems have been incorporated with selected answers provided at the end of the book. A related Web site includes additional data sets and SAS® code for all numerical examples. Linear Model in Statistics, Second Edition is a must-have book for

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courses in statistics, biostatistics, and mathematics at the upper-undergraduate and graduate levels. It is also an invaluable reference for researchers who need to gain a better understanding of regression and analysis of variance.

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This practical introduction helps readers apply multilevel techniques to their research. Noted as an accessible introduction, the book also includes advanced extensions, making it useful as both an introduction and as a reference

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to students, researchers, and methodologists. Basic models and examples are discussed in non-technical terms with an emphasis on understanding the methodological and statistical issues involved in using these models. The estimation and

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interpretation of multilevel models is demonstrated using realistic examples from various disciplines. For example, readers will find data sets on stress in hospitals, GPA scores, survey responses, street safety, epilepsy, divorce, and sociometric scores,

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to name a few. The data sets are available on the website in SPSS, HLM, MLwiN, LISREL and/or Mplus files. Readers are introduced to both the multilevel regression model and multilevel structural models. Highlights of the second edition include: Two

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new chapters—one on multilevel models for ordinal and count data (Ch. 7) and another on multilevel survival analysis (Ch. 8).

Thoroughly updated chapters on multilevel structural equation modeling that reflect the enormous technical progress of

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the last few years. The addition of some simpler examples to help the novice, whilst the more complex examples that combine more than one problem have been retained. A new section on multivariate meta-analysis (Ch. 11). Expanded discussions of

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covariance structures across time and analyzing longitudinal data where no trend is expected.

Expanded chapter on the logistic model for dichotomous data and proportions with new estimation methods. An updated website at <http://www.joophox.net/> with data

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**sets for all the text examples and
up-to-date screen shots and
PowerPoint slides for instructors.
Ideal for introductory courses on
multilevel modeling and/or ones
that introduce this topic in some
detail taught in a variety of
disciplines including: psychology,**

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education, sociology, the health sciences, and business. The advanced extensions also make this a favorite resource for researchers and methodologists in these disciplines. A basic understanding of ANOVA and multiple regression is assumed.

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The section on multilevel structural equation models assumes a basic understanding of SEM.

A pioneering monograph on tensor methods applied to distributional problems arising in statistics, this work begins with

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intrinsic mathematical
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The second edition of this bestselling textbook retains its unique learning-by-doing approach to econometrics. Rather than relying on complex theoretical discussions

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and complicated
mathematics, this book
explains econometrics from
a practical point of view
by walking the student
through real-life
examples, step by step.

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Damodar Gujarati's clear, concise, writing style guides students from model formulation, to estimation and hypothesis-testing, through to post-estimation diagnostics. The basic

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statistics needed to follow the book are covered in an appendix, making the book a flexible and self-contained learning resource. The textbook is ideal for

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undergraduate students in economics, business, marketing, finance, operations research and related disciplines. It is also intended for students in MBA programs across the

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social sciences, and for researchers in business, government and research organizations who require econometrics. New to this Edition: - Two brand new chapters on Quantile

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"Data Integration, Manipulation
and Visualization of

Phylogenetic Trees introduces

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and demonstrates data integration, manipulation and visualization of phylogenetic trees using a suite of R packages, tidytree, treeio, ggtree and ggtreeExtra. Using the most comprehensive packages for

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phylogenetic data integration and visualization, contains numerous examples that can be used for teaching and learning. Ideal for undergraduate readers and researchers with a working knowledge of R and ggplot2"--

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Regression is the branch of Statistics in which a dependent variable of interest is modelled as a linear combination of one or more predictor variables, together with a random error. The subject is inherently two- or

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higher- dimensional, thus an understanding of Statistics in one dimension is essential.

Regression: Linear Models in Statistics fills the gap between introductory statistical theory and more specialist sources of

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information. In doing so, it provides the reader with a number of worked examples, and exercises with full solutions. The book begins with simple linear regression (one predictor variable), and analysis of

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variance (ANOVA), and then further explores the area through inclusion of topics such as multiple linear regression (several predictor variables) and analysis of covariance (ANCOVA). The book concludes

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with special topics such as non-parametric regression and mixed models, time series, spatial processes and design of experiments. Aimed at 2nd and 3rd year undergraduates studying Statistics, Regression:

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Linear Models in Statistics requires a basic knowledge of (one-dimensional) Statistics, as well as Probability and standard Linear Algebra. Possible companions include John Haigh ' s Probability Models,

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and T. S. Blyth & E.F.
Robertsons ' Basic Linear
Algebra and Further Linear
Algebra.

Volume I is devoted to
continuous Gaussian linear
mixed models and has nine

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chapters. The chapters are organized in four parts. The first part provides a review of the methods of linear regression. The second part provides an in-depth coverage of the two-level models, the simplest extensions

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of a linear regression model. The mixed-model foundation and the in-depth coverage of the mixed-model principles provided in volume I for continuous outcomes, make it straightforward to transition to

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generalized linear mixed models
for noncontinuous outcomes
described in volume II.

The early 21st century marks a
new era in space exploration.

The National Aeronautics and
Space Administration (NASA) of

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the United States, The European Space Agency (ESA), as well as space agencies of Japan, China, India, and other countries have sent their probes to the Moon, Mars, and other planets in the solar system. Planetary Remote

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Sensing and Mapping introduces original research and new developments in the areas of planetary remote sensing, photogrammetry, mapping, GIS, and planetary science resulting from the recent space

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exploration missions. Topics covered include: Reference systems of planetary bodies
Planetary exploration missions and sensors Geometric information extraction from planetary remote sensing data

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Feature information extraction
from planetary remote sensing
data Planetary remote sensing
data fusion Planetary data
management and presentation
Planetary Remote Sensing and
Mapping will serve scientists

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and professionals working in the planetary remote sensing and mapping areas, as well as planetary probe designers, engineers, and planetary geologists and geophysicists. It also provides useful reading

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material for university teachers
and students in the broader
areas of remote sensing,
photogrammetry, cartography,
GIS, and geodesy.

Advances in Spatial
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An Introduction to Mathematical
Statistics and Its Applications
The Missing Data Case
Multilevel Analysis
Techniques and Applications,
Second Edition

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As Eugene Wigner stressed, mathematics has proven unreasonably effective in the physical sciences and their technological applications. The role of mathematics in the biological, medical and

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social sciences has been much more modest but has recently grown thanks to the simulation capacity offered by modern computers. This book traces the history of population dynamics---a theoretical subject closely

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connected to genetics,
ecology, epidemiology and
demography---where
mathematics has brought
significant insights. It
presents an overview of the
genesis of several important
themes: exponential growth,

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from Euler and Malthus to
the Chinese one-child
policy; the development of
stochastic models, from
Mendel's laws and the
question of extinction of
family names to percolation
theory for the spread of

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epidemics, and chaotic populations, where determinism and randomness intertwine. The reader of this book will see, from a different perspective, the problems that scientists face when governments ask

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for reliable predictions to help control epidemics (AIDS, SARS, swine flu), manage renewable resources (fishing quotas, spread of genetically modified organisms) or anticipate demographic evolutions such

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as aging.

Networks have permeated everyday life through everyday realities like the Internet, social networks, and viral marketing. As such, network analysis is an important growth area in the

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quantitative sciences, with roots in social network analysis going back to the 1930s and graph theory going back centuries. Measurement and analysis are integral components of network research. As a result,

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statistical methods play a critical role in network analysis. This book is the first of its kind in network research. It can be used as a stand-alone resource in which multiple R packages are used to illustrate how

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to conduct a wide range of network analyses, from basic manipulation and visualization, to summary and characterization, to modeling of network data. The central package is `igraph`, which provides

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extensive capabilities for
studying network graphs in
R. This text builds on Eric
D. Kolaczyk's book
Statistical Analysis of
Network Data (Springer,
2009) .

"Having been born a freeman,

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and for more than thirty
years enjoyed the blessings
of liberty in a free
State—and having at the end
of that time been kidnapped
and sold into Slavery, where
I remained, until happily
rescued in the month of

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January, 1853, after a
bondage of twelve years—it
has been suggested that an
account of my life and
fortunes would not be
uninteresting to the
public." -an excerpt