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***Predictive  
Modeling  
Applications In  
Actuarial Science  
Volume 1***

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Modeling Applications In  
***Predictive***  
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Modeling Applications In  
***Actuarial Science***

This book teaches multiple regression and time series and how to use these to analyze real data in risk management and finance.

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A Hands-On Approach to  
Predictive Modeling  
Understanding and Using  
Actuarial Models

Techniques International Series  
On Actuarial Science  
Computational Actuarial  
Science with R provides an  
introduction to the  
computational aspects of

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actuarial science. Using  
simple R code, the book

helps you understand the  
algorithms involved in

actuarial computations. It  
also covers more advanced  
topics, such as parallel

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computing and C/C++  
embedded codes. After an  
introduction to the R  
language, the book is  
divided into four parts.  
The first one addresses  
methodology and

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statistical modeling  
issues. The second part  
discusses the  
computational facets of  
life insurance, including  
life contingencies  
calculations and

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prospective life tables.

Focusing on finance from

an actuarial perspective,

the next part presents

techniques for modeling

stock prices, nonlinear

time series, yield curves,



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interest rates, and  
portfolio optimization.  
The last part explains how  
to use R to deal with  
computational issues of  
nonlife insurance. Taking  
a do-it-yourself approach

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to understanding  
algorithms, this book  
demystifies the  
computational aspects of  
actuarial science. It  
shows that even complex  
computations can usually

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## Actuarial Science Volume 1

be done without too much  
trouble. Datasets used in  
the text are available in  
an R package

(CASdatasets) .

This text is listed on the  
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Fellowship study in the  
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track. Healthcare Risk

Adjustment and Predictive  
Modeling provides a  
comprehensive guide to  
healthcare actuaries and

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other professionals

interested in healthcare

data analytics, risk

adjustment and predictive

modeling. The book first

introduces the topic with

discussions of health

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and some of the common  
approaches used by  
modelers. The third and  
final section covers a  
number of predictive  
modeling and risk  
adjustment case-studies,

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with examples from  
Medicaid, Medicare,  
disability, depression  
diagnosis and provider  
reimbursement, as well as  
the use of predictive  
modeling and risk



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adjustment outside the  
U.S. For readers who wish  
to experiment with their  
own models, the book also  
provides access to a test  
dataset.

"The International Series

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junction with the  
Institute and Faculty of  
Actuaries, contains  
textbooks for students

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taking courses in or  
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science, as well as more  
advanced works designed  
for continuing pro-  
fessional development or  
for describing and

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synthesizing research. The  
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reflect changes and  
developments in the  
curriculum, that encourage  
the introduction of

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courses on actuarial  
science in universities,  
and that show how  
actuarial science can be  
used in all areas where  
there is long-term  
financial risk"--

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and Predictive Modeling

**This book is devoted to  
the mathematical**

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**methods of  
metamodeling that can  
be used to speed up the  
valuation of large  
portfolios of variable  
annuities. It is suitable  
for advanced**



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**undergraduate students,  
graduate students, and  
practitioners. It is the  
goal of this book to  
describe the  
computational problems  
and present the**

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**metamodeling  
approaches in a way that  
can be accessible to  
advanced undergraduate  
students and  
practitioners. To that  
end, the book will not**

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**only describe the theory  
of these mathematical  
approaches, but also  
present the  
implementations.**

**The second edition of this  
volume provides insight**

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**and practical illustrations  
on how modern statistical  
concepts and regression  
methods can be applied**

**in medical prediction  
problems, including  
diagnostic and prognostic**

**outcomes. Many  
advances have been  
made in statistical  
approaches towards  
outcome prediction, but a  
sensible strategy is  
needed for model**

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**development, validation,  
and updating, such that  
prediction models can  
better support medical  
practice. There is an  
increasing need for  
personalized evidence-**

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**based medicine that uses  
an individualized  
approach to medical  
decision-making. In this  
Big Data era, there is  
expanded access to large  
volumes of routinely**

**collected data and an  
increased number of  
applications for  
prediction models, such  
as targeted early  
detection of disease and  
individualized approaches**



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**to diagnostic testing and  
treatment. Clinical**

**Prediction Models**

**presents a practical**

**checklist that needs to be  
considered for**

**development of a valid**

**prediction model. Steps  
include preliminary  
considerations such as  
dealing with missing  
values; coding of  
predictors; selection of  
main effects and**

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**interactions for a  
multivariable model;  
estimation of model  
parameters with  
shrinkage methods and  
incorporation of external  
data; evaluation of**

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**performance and  
usefulness; internal  
validation; and  
presentation formatting.  
The text also addresses  
common issues that make  
prediction models**

**suboptimal, such as small  
sample sizes,**

**exaggerated claims, and  
poor generalizability. The**

**text is primarily intended  
for clinical**

**epidemiologists and**

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**biostatisticians. Including  
many case studies and  
publicly available R code  
and data sets, the book is  
also appropriate as a  
textbook for a graduate  
course on predictive**

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**modeling in diagnosis  
and prognosis. While  
practical in nature, the  
book also provides a  
philosophical perspective  
on data analysis in  
medicine that goes**

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**models • Machine  
learning issues • More  
simulations with missing  
'y' values • Extended  
discussion on between-  
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**Updated LASSO  
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studies**

**This collection of articles  
addresses the most  
modern forms of loss  
reserving methodology:**

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**granular models and  
machine learning models.  
New methodologies come  
with questions about  
their applicability. These  
questions are discussed  
in one article, which**

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**focuses on the relative  
merits of granular and  
machine learning models.  
Others illustrate**

**applications with real-  
world data. The examples  
include neural networks,**

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**which, though well known  
in some disciplines, have  
previously been limited in  
the actuarial literature.**

**This volume expands on  
that literature, with  
specific attention to their**

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**application to loss  
reserving. For example,  
one of the articles  
introduces the  
application of neural  
networks of the gated  
recurrent unit form to the**

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**actuarial literature,  
whereas another uses a  
penalized neural network.**

**Neural networks are not  
the only form of machine  
learning, and two other  
papers outline**

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**applications of gradient  
boosting and regression  
trees respectively. Both  
articles construct loss  
reserves at the individual  
claim level so that these  
models resemble**



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**granular models. One of  
these articles provides a  
practical application of  
the model to claim  
watching, the action of  
monitoring claim  
development and**

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**anticipating major  
features. Such watching  
can be used as an early  
warning system or for  
other administrative  
purposes. Overall, this  
volume is an extremely**

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**useful addition to the  
libraries of those working  
at the loss reserving  
frontier.**

**This book is for actuaries  
and financial analysts  
developing their**

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**expertise in statistics and  
who wish to become  
familiar with concrete  
examples of predictive  
modeling.**

**Health Insurance**

**Predictive Modeling**

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Claim Counts  
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Management, together with new chapters that include Opportunity Analysis, Clinical Foundations, Measurement of Clinical Quality, and use of Propensity Matching. Modern mortality modelling for actuaries and actuarial students, with example R code, to unlock the



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potential of individual data.

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institutions contains all the tools  
needed to build and maintain an  
ERM framework. It discusses the  
internal and external contexts with

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approaches available, and risk management issues are highlighted with numerous case studies. This book also forms part of the core reading for the UK actuarial profession's specialist technical examination in enterprise risk management, ST9.

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Simplifying the often confusing  
array of software programs for  
fitting linear mixed models (LMMs),

Linear Mixed Models: A Practical  
Guide Using Statistical Software  
provides a basic introduction to  
primary concepts, notation,  
software implementation, model

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interpretation, and visualization of  
clustered and longitudinal data.

This easy-to-navigate reference

details the use of procedures for

fitting LMMs in five popular

statistical software packages: SAS,  
SPSS, Stata, R/S-plus, and HLM.

The authors introduce basic

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theoretical concepts, present a heuristic approach to fitting LMMs based on both general and hierarchical model specifications, develop the model-building process step-by-step, and demonstrate the estimation, testing, and interpretation of fixed-effect

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parameters and covariance parameters associated with random effects. These concepts are illustrated through examples using real-world data sets that enable comparisons of model fitting options and results across the software procedures. The book also



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gives an overview of important options and features available in each procedure. Making popular software procedures for fitting LMMs easy-to-use, this valuable resource shows how to perform LMM analyses and provides a clear explanation of mixed modeling

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*text then provides intuitive explanations of numerous common and modern regression and classification techniques, always with an emphasis on illustrating and solving real data problems. The text illustrates all parts of the modeling process*

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*through many hands-on, real-life examples, and every chapter contains extensive R code for each step of the process. This multi-purpose text can be used as an introduction to predictive models and the overall modeling process, a practitioner's reference*

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*handbook, or as a text for advanced undergraduate or graduate level predictive modeling courses. To that end, each chapter contains problem sets to help solidify the covered concepts and uses data available in the book's R package. This text*

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*is intended for a broad audience  
as both an introduction to*

*predictive models as well as a  
guide to applying them. Non-*

*mathematical readers will  
appreciate the intuitive*

*explanations of the techniques  
while an emphasis on problem-*

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*against complex equations, a  
mathematical background is  
needed for advanced topics.*

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coverage of both the  
deterministic and stochastic  
models of life contingencies, risk  
theory, credibility theory, multi-*

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*state models, and an introduction  
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material to fit into modern  
computational methods and  
provides several spreadsheet  
examples throughout. Covers the  
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Programmers, Scientists, Quants,  
Excel Users, and Other  
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powerful statistical models to  
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traditionally been difficult for non-

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*written the perfect tutorial for  
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functionality you'll need to  
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*manipulation, and visualization;  
and walk through several  
essential tests. Then, building on  
this foundation, you'll construct  
several complete models, both  
linear and nonlinear, and use  
some data mining techniques.  
After all this you'll make your*



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functions, and more Exploit data  
structures, including data.frames,  
matrices, and lists Read many  
different types of data Create  
attractive, intuitive statistical  
graphics Write user-defined*

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*functions Control program flow  
with if, ifelse, and complex checks*

*Improve program efficiency with  
group manipulations Combine*

*and reshape multiple datasets*

*Manipulate strings using R's  
facilities and regular expressions*

*Create normal, binomial, and*

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*Poisson probability distributions  
Build linear, generalized linear,  
and nonlinear models Program  
basic statistics: mean, standard  
deviation, and t-tests Train  
machine learning models Assess  
the quality of models and variable  
selection Prevent overfitting and*

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*perform variable selection, using  
the Elastic Net and Bayesian  
methods Analyze univariate and  
multivariate time series data  
Group data via K-means and  
hierarchical clustering Prepare  
reports, slideshows, and web  
pages with knitr Display*

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reusable R packages with  
devtools and Rcpp Register your  
product at [informit.com/register](http://informit.com/register)  
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students towards a critical  
understanding and handling of*

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*data sets together with the  
ensuing testing of hypotheses.*

*This approach distinguishes it  
from many other texts using  
statistical decision theory as their  
underlying philosophy. This  
volume covers concepts from  
probability theory, backed by*



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*numerous problems with selected  
answers.*

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*Feature Engineering and  
Selection*

*Metamodeling for Variable Series  
Annuities*

Collecting, analyzing, and extracting  
valuable information from a large amount  
of data requires easily accessible,  
robust, computational and analytical tools.

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Data Mining and Business Analytics with R utilizes the open source software R for the analysis, exploration, and simplification of large high-dimensional data sets. As a result, readers are provided with the needed guidance to model and interpret complicated data and become adept at building powerful models

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for prediction and classification.

Highlighting both underlying concepts and practical computational skills, *Data Mining and Business Analytics with R* begins with coverage of standard linear regression and the importance of parsimony in statistical modeling. The book includes important topics such as penalty-based variable

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selection (LASSO); logistic regression;  
regression and classification

trees; clustering; principal components and  
partial least squares; and the analysis of

text and network data. In addition, the

book presents:

- A thorough discussion and extensive demonstration of the theory behind the most useful data mining tools
-

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Illustrations of how to use the outlined  
concepts in real-world situations • Readily  
available additional data sets and related

Rcode allowing readers to apply their own  
analyses to the discussed materials •

Numerous exercises to help readers with  
computing skills and deepen their  
understanding of the material Data Mining

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and Business Analytics with R is an excellent graduate-level textbook for courses on data mining and

business analytics. The book is also a valuable reference for practitioners who collect and analyze data in the fields of finance, operations management, marketing, and the information sciences.

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« Written for business analysts, data scientists, statisticians, students, predictive modelers, and data miners, this comprehensive text provides examples that will strengthen your understanding of the essential concepts and methods of predictive modeling. »--

In this monograph, authors Greg Taylor



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and Gráinne McGuire discuss generalized  
linear models (GLM) for loss reserving,

beginning with strong emphasis on the

chain ladder. The chain ladder is

formulated in a GLM context, as is the  
statistical distribution of the loss reserve.

This structure is then used to test the need  
for departure from the chain ladder model

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and to consider natural extensions of the  
chain ladder model that lend themselves to  
the GLM framework.

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Freakonomics of big data." —Stein

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by over 30 universities | Translated into 9 languages An introduction for everyone.

In this rich, fascinating — surprisingly accessible — introduction, leading expert Eric Siegel reveals how predictive analytics (aka machine learning) works, and how it affects everyone every day.

Rather than a “how to” for hands-on

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techies, the book serves lay readers and experts alike by covering new case studies and the latest state-of-the-art techniques.

Prediction is booming. It reinvents industries and runs the world. Companies, governments, law enforcement, hospitals, and universities are seizing upon the power. These institutions predict whether

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you're going to click, buy, lie, or die.

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behavior combats risk, boosts sales,  
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manufacturing, conquers spam, optimizes  
social networks, toughens crime fighting,  
and wins elections. How? Prediction is  
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flourishing unnatural resource: data.

Accumulated in large part as the by-product of routine tasks, data is the

unsalted, flavorless residue deposited en masse as organizations churn away.

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statistical methodology  
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understanding of the  
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considering the  
following three key  
issues: a) who is the  
client, or sponsor, or  
otherwise interested  
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working with a  
particular data set and  
a clarification of the  
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alone. c) A mathematical  
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relationships between  
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family distributions,  
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products (and  
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structures on the other.

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questions, as well as  
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