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capability indices • A clear presentation of nonparametric methods and simple and multiple linear regression methods, as well as a brief discussion on logistic regression method • Comprehensive guidance on the

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and methods for analyzing longitudinal data, they do not highlight connections between various research threads in the statistical literature. Responding to this void, Longitudinal Data Analysis provides a clear, comprehensive, and unified overview of state-of-the-art theory and applications. It also focuses

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on the assorted challenges that arise in analyzing longitudinal data. After discussing historical aspects, leading researchers explore four broad themes: parametric modeling, nonparametric and semiparametric methods, joint models, and incomplete data. Each of these sections begins

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with an introductory chapter that provides useful background material and a broad outline to set the stage for subsequent chapters. Rather than focus on a narrowly defined topic, chapters integrate important research discussions from the statistical literature. They seamlessly blend

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theory with applications and include examples and case studies from various disciplines. Destined to become a landmark publication in the field, this carefully edited collection emphasizes statistical models and methods likely to endure in the future. Whether involved in the development

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of statistical methodology or the analysis of longitudinal data, readers will gain new perspectives on the field. "Practical Data Analysis with JMP" uses the powerful interactive and visual approach of JMP to introduce readers to the logic and methods of statistical thinking and data analysis.

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The book can stand on its own or be used to supplement a standard introduction-to-statistics textbook.

This book uses the powerful interactive and visual approach of JMP to introduce readers to the logic and methods of statistical thinking and data analysis. It enables you to discriminate

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among and to use fundamental techniques of analysis, enabling you to engage in statistical thinking by analyzing real-world problems.

"Application Scenarios" at the end of each chapter challenge you to put your knowledge and skills to use with data sets that go beyond mere repetition of

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chapter examples, and three new review chapters help readers integrate ideas and techniques. In addition, the scope and sequence of the chapters have been updated with more coverage of data management and analysis of data. The book can stand on its own as a learning resource for

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professionals or be used to supplement a standard college-level introduction-to-statistics textbook. Reflective of the broad applicability of statistical reasoning, the problems included in the book come from a wide variety of disciplines, including engineering, life sciences, business,

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economics, among others, and include a number of international and historical examples. --

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association rules model
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Partial Least Squares and positions it within the more general context of multivariate analysis. This book motivates current and potential users of JMP to extend their analytical

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Data Mining for Business Analytics: Concepts, Techniques, and Applications in Python presents an applied approach to data mining concepts and methods,

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from classical approaches such as linear and logistic regression, through to modern methods like neural networks, bagging and boosting, and even much more business

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precise language. Being a well-informed consumer of analyses requires the same set of skills so that you can recognize credible, actionable research when you see it. Robert

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statistical thinking and data analysis. It enables you to discriminate among and to use fundamental techniques of analysis, enabling you to engage in statistical thinking by

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by applying the concept of cost (an economic concept) to exergy, as exergy is a thermodynamic property fit for this purpose, in that it combines the

**quantity of energy with
its quality factor. Exergy
Analysis and
Thermoeconomics of
Buildings applies exergy
analysis methods and
thermoeconomics to the**

built environment. The mechanisms of heat transfer throughout the envelope of buildings are analyzed from an exergy perspective and then to the building thermal

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**installations, analyzing
the different
components, such as
condensing boilers,
absorption refrigerators,
microcogeneration
plants, etc., including**

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solar installations and finally the thermal facilities as a whole. A detailed analysis of the cost formation process is presented, which has its physical roots firmly

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planted in the second law of thermodynamics. The basic principles and the rules of cost allocation, in energy units (exergy cost), in monetary units (exergoeconomic cost),

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and in CO2 emissions (exergoenvironmental cost), based on the so-called Exergy Cost Theory are presented and applied to thermal installations of buildings.

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exposition, Exergy
Analysis and
Thermoeconomics of
Buildings discusses
exergy analysis and
thermoeconomics and the**

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role they could play in the analysis and design of building components, either the envelope or the thermal facilities, as well as the diagnosis of thermal installations.

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This book moves progressively from introducing the basic concepts to applying them. Exergy Analysis and Thermoconomics of Buildings provides

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that truly occur in actual installations; hence, the assessment of their effects encourages the manner to improve efficiency. Applies exergy analysis methods for the

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**installation of building
thermal facilities
equipment components,
including pipes, valves,
heat exchangers, boilers
and heat pumps Helps
readers determine the**

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**operational costs of
heating and cooling
building systems Includes
exergy analysis methods
that are devoted to
absorption refrigerators,
adsorption cooling**

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Statistics is increasingly
offered at the high school
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provoking book. Based on
years of teaching
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that involve active
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displaying data; then follows the traditional topics - linear regression, data collection, probability and inference. Part II gives tips on what does and what doesn't

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Science. She has designed and instructed data mining courses since 2004 at University of Maryland, Statistics.com, The Indian School of Business, and National Tsing Hua University, Taiwan. Professor Shmueli is known for her research

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and teaching in business analytics, with a focus on statistical and data mining methods in information systems and healthcare. She has authored over 70 journal articles, books, textbooks and book chapters. Peter C. Bruce is President and

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***a key part of of data
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comparison to "dark matter" -**

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i.e., matter in the universe that we know is there, but which is invisible to direct measurement). He reveals how we can detect when data is missing, the types of settings in which missing data are

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likely to be found, and what to do about it. It can arise for many reasons, which themselves may not be obvious - for example, asymmetric information in wars; time delays in financial trading;

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**dropouts in clinical trials;
deliberate selection to enhance
apparent performance in
hospitals, policing, and
schools; etc. What becomes
clear is that measuring and
collecting more and more data**

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(big data) will not necessarily lead us to better understanding or to better decisions. We need to be vigilant to what is missing or unknown in our data, so that we can try to control for it.

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How do we do that? We can be alert to the causes of dark data, design better data-collection strategies that sidestep some of these causes - and, we can ask better questions of our data, which

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**will lead us to deeper insights
and better decisions"--
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applications, this resource
combines statistical
instructions with a powerful
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to solve common problems in engineering and science. This step-by-step format enables users new to statistics or JMP to learn as they go.

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