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Applied Longitudinal Analysis Garrett M. Fitzmaurice, Nan M. Laird, James H. Ware, 2012-10-23 Praise for the First Edition this book should be on the shelf of everyone interested in longitudinal data analysis Journal of the American Statistical Association Features newly developed topics and applications of the analysis of longitudinal data Applied Longitudinal Analysis Second Edition presents modern methods for analyzing data from longitudinal studies and now features the latest state of the art techniques The book emphasizes practical rather than theoretical aspects of methods for the analysis of diverse types of longitudinal data that can be applied across various fields of study from the health and medical sciences to the social and behavioral sciences The authors incorporate their extensive academic and research experience along with various updates that have been made in response to reader feedback The Second Edition features six newly added chapters that explore topics currently evolving in the field including Fixed effects and mixed effects models Marginal models and generalized estimating equations Approximate methods for generalized linear mixed effects models Multiple imputation and inverse probability weighted methods Smoothing methods for longitudinal data Sample size and power Each chapter presents methods in the setting of applications to data sets drawn from the health sciences New problem sets have been added to many chapters and a related website features sample programs and computer output using SAS Stata and R as well as data sets and supplemental slides to facilitate a complete understanding of the material With its strong emphasis on multidisciplinary applications and the interpretation of results Applied Longitudinal Analysis Second Edition is an excellent book for courses on statistics in the health and medical sciences at the upper undergraduate and graduate levels The book also serves as a valuable reference for researchers and professionals in the medical public health and pharmaceutical fields as well as those in social and behavioral sciences who would like to learn more about analyzing longitudinal data

Applied Longitudinal Data Analysis for Epidemiology Jos W. R. Twisk, 2013-05-09 A practical guide to the most important techniques available for longitudinal data analysis essential for non statisticians and researchers

Applied Longitudinal Data Analysis Judith D. Singer, John B. Willett, 2003-03-27 By charting changes over time and investigating whether and when events occur researchers reveal the temporal rhythms of our lives Applied Linear Regression Sanford Weisberg, 2013-11-25 Praise for the Third Edition this is an excellent book which could easily be used as a course text International Statistical Institute The Fourth Edition of Applied Linear Regression provides a thorough update of the basic theory and methodology of linear regression modeling Demonstrating the practical applications of linear regression analysis techniques the Fourth Edition uses interesting real world exercises and examples Stressing central concepts such as model building understanding parameters assessing fit and reliability and drawing conclusions the new edition illustrates how to develop estimation confidence and testing procedures primarily through the use of least squares

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Uncertainty Analysis with High Dimensional Dependence Modelling Dorota Kurowicka, Roger M. Cooke, 2006-03-31 This text provides both the mathematical foundations and practical applications in this rapidly expanding area including an up to date comprehensive overview of the foundations and applications of uncertainty analysis all the key topics including uncertainty elicitation dependence modelling sensitivity analysis and probabilistic inversion numerous worked examples and applications workbook problems enabling use for teaching software support for the examples using UNICORN a Windows based uncertainty modelling package developed by the authors and a website featuring a version of the UNICORN software tailored specifically for the book as well as computer programs and data sets to support the examples

Contemporary Bayesian Econometrics and Statistics John Geweke, 2005-09-14 Bayesian analysis is a highly effective tool in the many cases when economic decisions are based on limited or imperfect information For students and professionals familiar with basic econometrics this volume is an accessible entry point into the Bayesian method

Decision Theory Giovanni Parmigiani, Lurdes Inoue, 2009-05-26 Decision theory provides a formal framework for making logical choices in the face of uncertainty Given a set of alternatives a set of consequences and a correspondence between those sets decision theory offers conceptually simple procedures for choice This book presents an overview of the fundamental concepts and outcomes of rational decision making under uncertainty highlighting the implications for statistical practice The authors have developed a

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Oxford Handbook of Methods in Positive Psychology Anthony D. Ong, Manfred H. M. Van Dulmen, 2007 In the short time since the publication of the Handbook of Positive Psychology research results on the psychology of human strengths have proliferated However no major volume has documented the methods and theory used to achieve these results Oxford Handbook of Methods in Positive Psychology fills this need providing a broad overview of diverse contemporary methods in positive psychology With contributions from both leading scholars and promising young investigators the handbook serves to illuminate and at times challenge traditional approaches Incorporating multiple levels of analysis from biology to culture the contributors present state of the art techniques including those for estimating variability and change at the level of the individual identifying reliability of measurements within and across individuals and separating individual differences in growth from aspects of phenomena that exhibit shorter term variability over time The volume covers such topics as wisdom health hope resilience religion relationships emotions well being character strengths and laughter It enhances our understanding of the balance between human deficits and strengths and demonstrates their connections to other problems Oxford Handbook of Methods in Positive Psychology will be the essential reference for methods in positive psychology

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American Statistical Association **JAMA Guide to Statistics and Methods** Edward H. Livingston, Roger J. Lewis, 2019-11-29 The world renowned experts at JAMA explain statistical analysis and the methods used in medical research Written in the language and style appropriate for clinicians and researchers this new JAMA Guide to Statistics and Methods provides explanations and expert discussion of the statistical analytic approaches and methods used in the medical research reported in articles appearing in JAMA and the JAMA Network journals This addition to the JAMA evidence series is particularly timely and necessary because today's physicians and other health care professionals must pursue lifelong learning to keep up with the ever expanding universe of new medical science and evidence based clinical information Readers and users of research articles must have a firm grasp of the myriad new statistical analytic and methodologic approaches used in contemporary medical studies To provide concrete examples the explanations in the book link to research articles that incorporate the specific statistical test or methodological approach being discussed **Markov Processes and Applications** Etienne Pardoux, 2008 Features include Monte Carlo Method discrete time Markov chains Poisson processes and continuous time jump Markov Processes diffusion processes mathematical finance and stochastic calculus **Applied Longitudinal Data Analysis for Medical Science** Jos W. R. Twisk, 2023-04-27 Discusses methods available for longitudinal data analysis in non technical language allowing readers to apply techniques easily to their work Aimed at non statisticians and researchers working in medical science and utilising longitudinal studies the interpretation of the results of various methods of analysis is emphasised **Flowgraph Models for Multistate Time-to-Event Data** Aparna V. Huzurbazar, 2005 Publisher Description

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