Applied Regression An Introduction Quantitative Applications In The Social Sciences

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known for its readability and clarity this second edition of the best selling applied regression provides an accessible introduction to regression analysis for social scientists and other professionals who want to model quantitative data after covering the basic idea of fitting a straight line to a scatter of data points the text uses clear language to explain both the mathematics and assumptions behind the simple linear regression model authors colin lewis beck and michael lewis beck then cover more specialized subjects of regression analysis such as multiple regression measures of model fit analysis of residuals interaction effects multicollinearity and prediction throughout the text graphical and applied examples help explain and demonstrate the power and broad applicability of regression analysis for answering scientific questions

researchers have often been troubled with relevant data available from both temporal observations at regular intervals time series and from observations at single points of time cross sections pooled time series analysis combines time series and cross sectional data to provide the researcher with an efficient method of analysis and improved estimates of the population being studied in addition with more relevant data available this analysis technique allows the sample size to be increased which ultimately yields a more effective study

through the use of actual research investigations that have appeared in recent social science journals gibbons shows the reader the specific methodology and logical rationale for many of the best known and most frequently used nonparametric methods that are applicable to most small and large sample sizes the methods are organized according to the type of sample structure that produced the data to be analyzed and the inference types covered are limited to location tests such as the sign test the mann whitney wilcoxon test the kruskal wallis test and friedman s test the formal introduction of each test is followed by a data example calculated first by hand and then by computer

focusing on situations in which analysis of variance anova involving the repeated measurement of separate groups of individuals is needed girden reveals the advantages disadvantages and counterbalancing issues of repeated measures situations using additive and nonadditive models to guide the analysis in each chapter the book covers such topics as the rationale for partitioning the sum of squares detailed analyses to facilitate the interpretation of computer printouts the rationale for the f ratios in terms of expected means squares validity assumptions for sphericity or circularity and approximate tests to perform when sphericity is not met

a substantially revised and updated edition of an earlier volume in the series asher presents a number of techniques of causal modelling beginning with the work of simon and blalock and moving on to recursive and non recursive path estimation special attention is given to a number of problems in the causal analysis of data with illustrations from studies in political socialization and voting behaviour

multiple comparisons demonstrates the most important methods of investigating differences between levels of an independent variable within an experimental design the authors review the analysis of variance and hypothesis testing and describe the dimensions on which multiple comparisons vary a feature is the use made of a famous experiment by solomon asch on group conformity the authors demonstrate the statistical power of each method against this one experimental question

the authors have provided beginners with a background to the frequently used technique of linear regression it is not intended to be a substitute for a course or textbook in statistics but rather a stop gap for students who encounter empirical work before undertaking a statistics course it provides a heuristic explanation of the procedures and terms used in regression analysis and has been written at the most elementary level

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designed for researchers and students alike the volume describes how to perform each stage of the data collection process on the internet including sampling instrument design and administration through the use of non technical prose and illustrations it details the options available describes potential dangers in choosing them and provides guidelines for sidestepping them in doing so

though it does not simply reiterate the practices of traditional communication modes but approaches the internet as a unique medium that necessitates its own conventions

although clustering the classifying of objects into meaningful sets is an important procedure cluster analysis as a multivariate statistical procedure is poorly understood this volume is an introduction to cluster analysis for professionals as well as advanced undergraduate and graduate students with little or no background in the subject reaching across disciplines aldenderfer and blashfield pull together the newest information on cluster analysis providing the reader with a pragmatic guide to its current uses statistical techniques validation methods and compatible software programs

this volume introduces the reader to one of the most fundamental topics in social science statistics experimental design the authors clearly show how to select an experimental design based on the number of independent variables and the number of subjects other topics addressed include variability hypothesis testing how anova can be extended to the multi group situation the logic of the t test and completely randomized designs

bootstrapping a computational nonparametric technique for re sampling enables researchers to draw a conclusion about the characteristics of a population strictly from the existing sample rather than by making parametric assumptions about the estimator using real data examples from per capita personal income to median preference differences between legislative committee members and the entire legislature mooney and duval discuss how to apply bootstrapping when the underlying sampling distribution of the statistics cannot be assumed normal as well as when the sampling distribution has no analytic solution in addition they show the advantages and limitations of four bootstrap confidence interval methods normal approximation percenti

aimed at aiding researchers to improve their data s quality computer assisted interviewing helps readers identify the possibilities and difficulties which arise in computer assisted interviewing the author annotates samples of actual research questionnaires so that readers can compare the usual paper questionnaire against the extra statements needed for clear computer assisted interviewing in addition the book includes an overview of the important features to consider if one wants to purchase a cadac program

a method for studying changes in group patterns particularly groups based on age cohort analysis seeks to isolate changes attributable to alterations in behaviour or attitudes within an age group as an example of behaviour change the pattern of consumption of alcohol within a cohort is analyzed

this monograph is not statistical it looks instead at pre statistical assumptions about dependent variables and causal order professor davis spells out the logical principles that underlie our ideas of causality and explains how to discover causal direction irrespective of the statistical technique used he stresses throughout that knowledge of the real world is important and repeatedly challenges the myth that causal problems can be solved by statistical calculations alone

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Introduction

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