

# **MICROCOMPUTER METHODS FOR SOCIAL SCIENTISTS**

***PHILIP A. SCHRODT***

Series: Quantitative Applications  
in the Social Sciences

 a SAGE UNIVERSITY PAPER

**40**

**Microcomputer Methods For Social Scientists Sage  
University Paper 40 Quantitative Applications In The  
Social Sciences**

**Mark S. Levine**



## **Microcomputer Methods For Social Scientists Sage University Paper 40 Quantitative Applications In The Social Sciences:**

*Basic Math for Social Scientists* Timothy Hagle, 1995-06-29 Taking an informal approach Hagle presents a review of the basic mathematical concepts that underlie most quantitative analysis in the social sciences After an algebra review featuring sets and combinations Hagle discusses limits and continuity Calculus is presented next with an introduction to differential calculus Multivariate functions partial derivatives and integral calculus are discussed the author concludes with a discussion of matrix algebra Aimed at readers who have taken one or two courses in algebra this volume is packed with helpful definitions equations and examples as well as alternative notations A useful appendix of common math symbol and Greek letters is also included

**Using Microcomputers in Research** Thomas W. Madron, C. Neal Tate, Robert G. Brookshire, 1985-05-01 Using Microcomputers in Research may be used in conjunction with the earlier Microcomputer Methods for Social Scientists QASS 40 together they provide a lucid and comprehensive introduction to microcomputing in the social sciences This book is organized around the research process taking the reader through the processes of writing the research proposal gathering data analysing and manipulating data and writing the research report

**Understanding Significance Testing** Lawrence B. Mohr, 1990-02 The book begins with a clear and readable explanation of the idea of the sampling distribution This text should be useful to the nonstatistical social researcher who wants to understand the concept of significance testing Social Research Association News Good for refreshing a few basic ideas Journal of the American Statistical Association Significance testing is the most used and arguably the most useful of all techniques for analyzing social science data In this practical volume Mohr first defines basic terms such as variance standard deviation and parameter He then carefully outlines the uses of significance testing and examines sampling distributions probability distributions and normal and t tests of significance Readers at all levels of research experience from the first semester student to the seasoned practitioner will profit from this handy volume

**Regression Models** Richard Breen, 1996-01-09 What techniques can social scientists use when an outcome variable for a sample for example  $y$  is not representative of the population for which generalized results are preferred Author Richard Breen provides an introduction to regression models for such data including censored sample selected and truncated data Regression Models begins with a discussion of the Tobit model and examines issues such as maximum likelihood estimation and the interpretation of parameters The author next discusses the basic sample selection model and the truncated regression model Elaborating on the modeling of censored and sample selected data via maximum likelihood he shows the close links between the models introduced and other regression models for non continuous dependent variables such as the ordered probit Concluding with an exploration of some of the criticisms of these approaches and difficulties associated with them this volume gives readers a guide to the practical utility of these models

**Three Way Scaling** Phipps Arabie, Douglas Carroll, Wayne S. DeSarbo, 1987 This volume is a logical extension of 11

Multidimensional Scaling providing an up to date overview of some three way models for multidimensional scaling and related techniques 104      Canonical Analysis and Factor Comparison Mark S. Levine, 1977-04 Canonical correlational analysis Factor comparison techniques References      **Causal Analysis with Panel Data** Steven E. Finkel, 1995-01-17 Panel data which consist of information gathered from the same individuals or units at several different points in time are commonly used in the social sciences to test theories of individual and social change This book provides an overview of models that are appropriate for the analysis of panel data focusing specifically on the area where panels offer major advantages over cross sectional research designs the analysis of causal interrelationships among variables Without painting panel data as a cure all for the problems of causal inference in nonexperimental research the author shows how panel data offer multiple ways of strengthening the causal inference process In addition he shows how to estimate models that contain a variety of lag specifications reciprocal effects and imperfectly measured variables Appropriate for readers who are familiar with multiple regression analysis and causal modeling this book will offer readers the highlights of developments in this technique from diverse disciplines to analytic traditions      **Nonrecursive Causal Models** William Dale Berry, 1984-07 The author defines the concept of identification and explains what goes wrong with some nonrecursive models to make them nonidentified He provides various tests which can be used to determine whether a nonrecursive model is identified and reviews common techniques for estimating the parameters of an identified model      *Measures of Association* Albert M. Liebetrau, 1983-04 Clearly reviews the properties of important contemporary measures of association and correlation Liebetrau devotes full chapters to measures for nominal ordinal and continuous interval data paying special attention to the sampling distributions needed to determine levels of significance and confidence intervals Valuable discussions also focus on the relationships between various measures the sampling properties of their estimators and the comparative advantages and disadvantages of different approaches      *Causal Modeling* Herbert B. Asher, 1976 Retains complete coverage of the first edition while amplifying key areas such as direct indirect effects standardized unstandardized variables multicollinearity and nonrecursive modeling      *Translating Questionnaires and Other Research Instruments* Orlando Behling, Kenneth S. Law, 2000-05-24 The problems involved in translating existing questionnaires and other paper and pencil instruments from one language to another are discussed here This text shows how to identify the problems with an existing instrument how to solve each of these problems with step by step guidelines      **Multivariate Tests for Time Series Models** Jeff B. Cromwell, 1994 Which time series test should researchers choose to best describe the interactions among a set of time series variables Providing guidelines for identifying the appropriate multivariate time series model to use this book explores the nature and application of these increasingly complex tests      *Analyzing Repeated Surveys* Glenn Firebaugh, 1997-01-17 Repeated surveys a technique for asking the same questions to different samples of people allows researchers to analyse changes in society as a whole Firebaugh shows how to separate cohort period and age effects and model aggregate trends

**Research Designs** Paul E. Spector, 1981-09 Author Paul E Spector provides a clear introduction to the principles of experimental and non experimental design including single group design pre test post test designs and factorial designs Spector also covers hierarchical designs multivariate designs the Solomon four group design panel designs and designs with concomitant variables

**Analysis of Ordinal Data** David K. Hildebrand, James D. Laing, Howard Rosenthal, 1977 Ordinal data can be rank ordered but not assumed to have equal distances between categories Using support by judges for civil rights measures and bussing as the primary example this paper indicates how such data can best be analyzed

***Confidence Intervals*** Michael Smithson, 2003 Using lots of easy to understand examples from different disciplines the author introduces the basis of the confidence interval framework and provides the criteria for best confidence intervals along with the trade offs between confidence and precision The book covers such pertinent topics as the transformation principle whereby a confidence interval for a parameter may be used to construct an interval for any monotonic transformation of that parameter confidence intervals on distributions whose shape changes with the value of the parameter being estimated the relationship between confidence interval and significance testing frameworks particularly regarding power

**Calculus** Gudmund R. Iversen, 1996-01-18 Aimed at readers who may be more familiar with statistics than calculus and mathematics this carefully written volume gives an overview of the central ideas in calculus Author Gudmund R Iversen shows examples of how calculus is used to translate many real world phenomena into mathematical functions Beginning with an explanation of the two major parts of calculus differentiation and integration Iversen illustrates how calculus is used in statistics to distinguish between the mean and the median to derive the least squares formulas for regression coefficients to find values of parameters from theoretical distributions and to find a statistical p value when we using one of the continuous test variables like the t variable Social scientists who either never took a calculus course or who want to brush up on their understanding of calculus will find this book a necessity

**Interaction Effects in Multiple Regression** James Jaccard, Robert Turrissi, 2003-03-05 This is a practical introduction to conducting analyses of interaction effects in the context of multiple regression This new edition expands coverage on the analysis of three way interactions in multiple regression analysis

**Effect Size for ANOVA Designs** Jose M. Cortina, Hossein Nouri, 2000 Researchers have been complaining about the lack of one single place to find information on computing effect sizes in analysis of variance ANOVA until now Authors Jose M Cortina and Hossein Nouri begin with a literature review of previous treatments of the topic including corrections to the misleading treatments of repeated measures and ANCOVA analysis of covariance designs They introduce the effect sizes by defining the term and explaining how it is computed from summary and test statistics for the simple two independent group design They next provide a description of methods for computing effect sizes from the results of one way designs with more than two groups and then extend these methods to cases in which the effects of interest are embedded within the context of two and three way ANOVA s They conclude the book with an explanation of the methods for computing effect size from the results of

ANCOVA designs followed by the methods for computing effect sizes from the results of repeated measures Throughout the book the authors offer examples with worked out computations to illustrate each technique Researchers who need to estimate their effect size or run a meta analysis will find this book very useful Univariate Tests for Time Series Models  
Jeff B. Cromwell, Walter C. Labys, Michel Terraza, 1994 Taking a sequential approach to time series model building this easy to use and widely applicable book explores how to test for stationarity normality independence linearity model order and properties of the residual process The authors clearly define each testing procedure and offer examples to illustrate each concept They also offer sound advice on how to perform the tests using different software packages

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