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It's Back!

Design and Analysis of Time-Series Experiments

(with a new Introduction by the first author)

Gene V Glass, Arizona State University Victor L. Willson, Texas A&M University John M. Gottman, The Gottman Institute, Seattle, Washington

Hailed as a landmark in the development of experimental methods when it appeared in 1975, *Design and Analysis of Time-Series Experiments* is available again after several years of being out of print.



design identified by their mentors in the classic Campbell & Stanley text *Experimental and Quasi-experimental Design for Research* (1966). In an era when governments seek to resolve questions of experimental validity by fiat and the label "Scientifically Based Research" is appropriated for only certain privileged experimental designs, nothing could be more appropriate than to bring back the classic text that challenges doctrinaire opinions of proper causal analysis.

Glass, Willson & Gottman introduce and illustrate an armamentarium of interrupted time-series experimental

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Advances in Latent Variable Mixture Models

Edited by **Gregory R. Hancock**, University of Maryland, College Park, and **Karen M. Samuelsen**, University of Georgia

The current volume, *Advances in Latent Variable Mixture Models*, contains chapters by all of the speakers who participated in the 2006 CILVR conference, providing not just a snapshot of the event, but more importantly chronicling the state of the art in latent variable mixture model research. The volume starts with an overview chapter by the CILVR conference keynote speaker, Bengt Muthén, offering a "lay of the land" for latent variable mixture models before the volume moves to more specific constellations of topics. Part I, *Multilevel and Longitudinal Systems*, deals with mixtures for data that are hierarchical in nature either due to the data's sampling structure or to the repetition of measures (of varied types) over time. Part II, *Models for Assessment and Diagnosis*, addresses scenarios for making judgments about individuals' state of knowledge or development, and about the instruments used for making such judgments. Finally, Part III, *Challenges*



in Model Evaluation, focuses on some of the methodological issues associated with the selection of models most accurately representing the processes and populations under investigation. It should be stated that this volume is not intended to be a first exposure to latent variable methods. Readers lacking such foundational knowledge are encouraged to consult primary and/or secondary didactic resources in order to get the most from the chapters in this volume. Once armed with that basic understanding of latent variable methods, we believe readers will find this volume incredibly exciting.

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Structural Equation Modeling: A Second Course

Edited by **Gregory R. Hancock**, University of Maryland and **Ralph O. Mueller**, The George Washington University

A volume in Quantitative Methods in Education and the Behavioral Sciences: Issues, Research, and Teaching Series Editor Ron Serlin, University of Wisconsin

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Multilevel Modeling of Educational Data

Edited by **Ann A. C'Connell**, *Ohio State University* and **D. Betsy McCoach**, *University of Connecticut*

A volume in Quantitative Methods in Education and the Behavioral Sciences: Issues, Research, and Teaching

Series Editor Ron Serlin, University of Wisconsin

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Multilevel Modeling of Educational Data, co-edited by Ann A. O'Connell, Ed.D., and D. Betsy McCoach, Ph.D., is the next volume in the series: *Quantitative Methods in Education and the Behavioral Sciences: Issues, Research and Teaching* (Information Age Publishing), sponsored by the Educational Statisticians' Special Interest Group (Ed-Stat SIG) of the American Educational Research Association. The use of multilevel analyses to examine effects of groups or contexts on individual outcomes has burgeoned over the past few decades. Multilevel modeling techniques allow educational researchers to more appropriately model data that occur within multiple hierarchies (i.e.- the classroom, the school, and/or the district). Examples of multilevel research problems involving schools or studying school-level characteristics on the incidence of within diverse classrooms or schools or studying school-level characteristics on the incidence of within Guerra Multilevel and proportional or studying schools or studying school-level characteristics on the incidence of within diverse classrooms or schools or studying school-level characteristics on the incidence of within Guerra Multilevel model or provement for children within diverse classrooms or schools or studying school-level characteristics on the incidence of the within diverse classrooms or schools or studying school-level characteristics on the incidence of the within diverse classrooms or schools or studying school-level characteristics on the incidence of the within diverse classrooms or schools or studying school-level characteristics on the incidence of the school or studying school-level characteristics on the incidence of the within diverse classrooms or schools or studying school-level characteristics on the incidence of the school or studying school or studying schools are schools or school



bullying. Multilevel models provide an improvement over traditional single-level approaches to working with clustered or hierarchical data; however, multilevel data present complex and interesting methodological challenges for the applied education research community.

In keeping with the pedagogical focus for this book series, the papers this volume emphasize applications of multilevel models using educational data, with chapter topics ranging from basic to advanced. This book represents a comprehensive and instructional resource text on multilevel modeling for quantitative researchers who plan to use multilevel techniques in their work, as well as for professors and students of quantitative methods courses focusing on multilevel analysis. Through the contributions of experienced researchers and teachers of multilevel modeling, this volume provides an accessible and practical treatment of methods appropriate for use in a first and/or second course in multilevel analysis. A supporting website links chapter examples to actual data, creating an opportunity for readers to reinforce their knowledge through hands-on data analysis. This book serves as a guide for designing multilevel studies and applying multilevel modeling techniques in educational and behavioral research, thus contributing to a better understanding of and solution for the challenges posed by multilevel systems and data.

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Edited by Shlomo S. Sawilowsky, Wayne State University

A volume in Quantitative Methods in Education and the Behavioral Sciences: Issues, Research, and Teaching

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The invited authors of this edited volume have been prolific in the arena of Real Data Analysis (RDA) as it applies to the social and behavioral sciences, especially in the disciplines of education and psychology. Combined, this brain trust represents 3,247 articles in refereed journals, 127 books published, US \$45.3 Million in extramural research funding, 34 teaching and 92 research awards, serve(d) as Editor/Assistant Editor/Editorial Board Member for 95 peer reviewed journals, and provide(d) ad hoc reviews for 362 journals. Their enormous footprint on real data analysis is showcased for professors, researchers, educators, administrators, and graduate students in the second text in the AERA/SIG ES Quantitative Methods series.

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