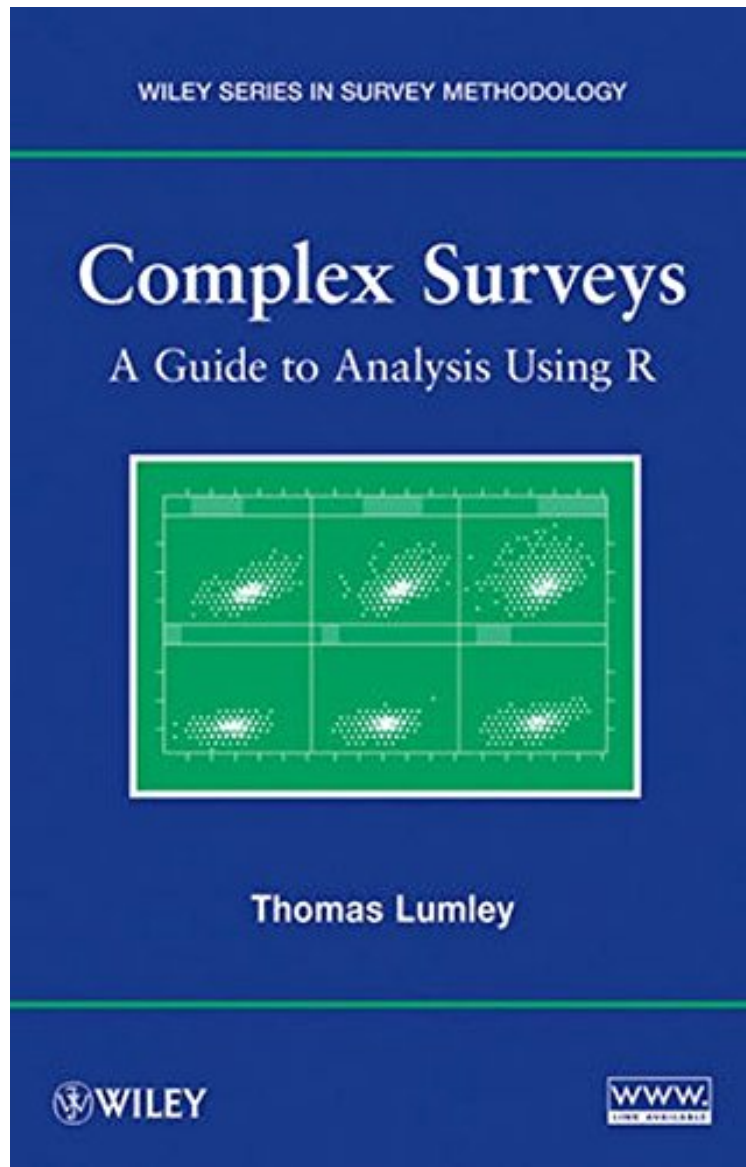


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Complex Surveys: A Guide to Analysis Using R

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Thomas Lumley : Complex Surveys: A Guide to Analysis Using R before purchasing it in order to gage whether or not it would be worth my time, and all praised Complex Surveys: A Guide to Analysis Using R:

0 of 0 people found the following review helpful. Read the preface, peopleBy StatMan89Some reviewers have criticized the lack of technical statistical detail in this book. That isn't the goal and Lumley explicitly says so in the preface: "Formulas will be presented ... only when I feel they are useful for understanding concepts ..." In the very

next sentence, he cites a work providing more technical detail for those interested. Lumley's aim is to present the basics of survey sampling and use of the R "survey" package, which provides a welcome alternative to the very expensive SUDAAN and SAS. That said, the lack of posted code is a drawback as readers have to enter the code themselves. The book would also benefit from updating since functionality of the survey package has expanded significantly. Recent enhancements include direct standardization, predictive margins, database support with MonetDB, and the "srvyr" package to manipulate survey summary statistics similarly to the very popular "dplyr" package. Even so, the book remains a useful resource combined with Anthony Damico's asdfree.com site to fill the gaps. Recommended. 0 of 0 people found the following review helpful. This is a clearly written book that nicely explains the theoretical and practical issues with complex surveys. By Customer This is a clearly written book that nicely explains the theoretical and practical issues with complex surveys. If you're analysing complex survey data in R, it is a must read. 0 of 1 people found the following review helpful. we should be glad we are using the book. By MAGA At one point in the book the author states that, essentially, we should be glad we are using the book, but here are some other choices IN CASE you did not like it. I would go with the other examples. This book was a disappointment on several levels. Predictable and not detailed, at all. I would have appreciated additional information when there was none, and yet there were paragraphs of endless nothings. If you are wanting to learn more about R and Complex Surveys (particularly the Survey Package) I would look elsewhere.

A complete guide to carrying out complex survey analysis using R As survey analysis continues to serve as a core component of sociological research, researchers are increasingly relying upon data gathered from complex surveys to carry out traditional analyses. *Complex Surveys* is a practical guide to the analysis of this kind of data using R, the freely available and downloadable statistical programming language. As creator of the specific survey package for R, the author provides the ultimate presentation of how to successfully use the software for analyzing data from complex surveys while also utilizing the most current data from health and social sciences studies to demonstrate the application of survey research methods in these fields. The book begins with coverage of basic tools and topics within survey analysis such as simple and stratified sampling, cluster sampling, linear regression, and categorical data regression. Subsequent chapters delve into more technical aspects of complex survey analysis, including post-stratification, two-phase sampling, missing data, and causal inference. Throughout the book, an emphasis is placed on graphics, regression modeling, and two-phase designs. In addition, the author supplies a unique discussion of epidemiological two-phase designs as well as probability-weighting for causal inference. All of the book's examples and figures are generated using R, and a related Web site provides the R code that allows readers to reproduce the presented content. Each chapter concludes with exercises that vary in level of complexity, and detailed appendices outline additional mathematical and computational descriptions to assist readers with comparing results from various software systems. *Complex Surveys* is an excellent book for courses on sampling and complex surveys at the upper-undergraduate and graduate levels. It is also a practical reference guide for applied statisticians and practitioners in the social and health sciences who use statistics in their everyday work.

About the Author THOMAS LUMLEY, PHD, is Associate Professor of Biostatistics at the University of Washington. He has published numerous journal articles in his areas of research interest, which include regression modeling, clinical trials, statistical computing, and survey research. Dr. Lumley created the survey package that currently accompanies the R software package, and he is also coauthor of *Biostatistics: A Methodology for the Health Sciences*, Second Edition, published by Wiley.