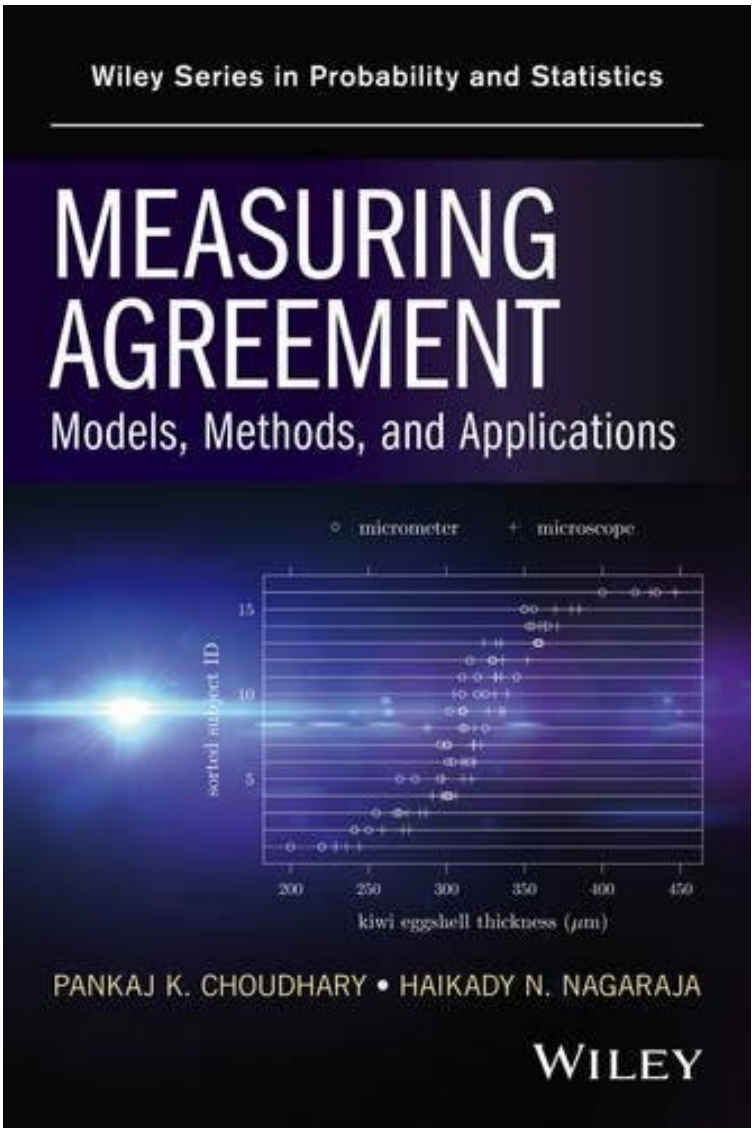
Measuring Agreement: Models, Methods, and Applications (Wiley Series in Probability and Statistics)

Pankaj K. Choudhary, Haikady N. Nagaraja
*ebooks | Download PDF | *ePub | DOC | audiobook*



#6216086 in Books 2017-10-30Original language:EnglishPDF # 1 .0 x .0 x .0l, .0 #File Name: 1118078586360 pages | File size: 56.Mb

Pankaj K. Choudhary, Haikady N. Nagaraja : Measuring Agreement: Models, Methods, and Applications (Wiley Series in Probability and Statistics) before purchasing it in order to gage whether or not it would be worth my time, and all praised Measuring Agreement: Models, Methods, and Applications (Wiley Series in Probability and

Statistics):

Presents statistical methodologies for analyzing common types of data from method comparison experiments and illustrates their applications through detailed case studies Measuring Agreement: Models, Methods, and Applications features statistical evaluation of agreement between two or more methods of measurement of a variable with a primary focus on continuous data. The authors view the analysis of method comparison data as a two-step procedure where an adequate model for the data is found, and then inferential techniques are applied for appropriate functions of parameters of the model. The presentation is accessible to a wide audience and provides the necessary technical details and references. In addition, the authors present chapter-length explorations of data from paired measurements designs, repeated measurements designs, and multiple methods; data with covariates; and heteroscedastic, longitudinal, and categorical data. The book also: Strikes a balance between theory and applications Presents parametric as well as nonparametric methodologies Provides a concise introduction to Cohens kappa coefficient and other measures of agreement for binary and categorical data Discusses sample size determination for trials on measuring agreement Contains real-world case studies and exercises throughout Provides a supplemental website containing the related datasets and R code Measuring Agreement: Models, Methods, and Applications is a resource for statisticians and biostatisticians engaged in data analysis, consultancy, and methodological research. It is a reference for clinical chemists, ecologists, and biomedical and other scientists who deal with development and validation of measurement methods. This book can also serve as a graduate-level text for students in statistics and biostatistics.

From the Back CoverPresents statistical methodologies for analyzing common types of data from method comparison experiments and illustrates their applications through detailed case studies Measuring Agreement: Models, Methods, and Applications features statistical evaluation of agreement between two or more methods of measurement of a variable with a primary focus on continuous data. The authors view the analysis of method comparison data as a two-step procedure where an adequate model for the data is found, and then inferential techniques are applied for appropriate functions of parameters of the model. The presentation is accessible to a wide audience and provides the necessary technical details and references. In addition, the authors present chapter-length explorations of data from paired measurements designs, repeated measurements designs, and multiple methods; data with covariates; and heteroscedastic, longitudinal, and categorical data. The book also: Strikes a balance between theory and applications Presents parametric as well as nonparametric methodologies Provides a concise introduction to Cohens kappa coefficient and other measures of agreement for binary and categorical data Discusses sample size determination for trials on measuring agreement Contains real-world case studies and exercises throughout Provides a supplemental website containing the related datasets and R code Measuring Agreement: Models, Methods, and Applications is a resource for statisticians and biostatisticians engaged in data analysis, consultancy, and methodological research. It is a reference for clinical chemists, ecologists, and biomedical and other scientists who deal with development and validation of measurement methods. This book can also serve as a graduate-level text for students in statistics and biostatistics.About the AuthorP. K. CHOUDHARY, PhD, is Professor in the Department of Mathematical Sciences at the University of Texas at Dallas. Currently, he is also the Associate Head of the department. His research interests include development of statistical methodology for biostatistical applications, and he has published extensively in the field of method comparison studies. H. N. NAGARAJA, PhD, is Professor Emeritus at The Ohio State University where he has served in the Departments of Statistics and Internal Medicine and the Division of Biostatistics. He is a fellow of the American Statistical Association and the American Association for the Advancement of Science, and an elected member of the International Statistical Institute. His published works include Order Statistics, Third Edition (with H. A. David) and Records (with B. C. Arnoldand N. Balakrishnan), both published by Wiley.