

# **Effect Sizes for Research**

Univariate and Multivariate Applications

Second Edition

Robert J. Grissom

John J. Kim

# Effect Sizes For Research Univariate And Multivariate Applications

**S Ashworth**



## **Effect Sizes For Research Univariate And Multivariate Applications:**

Effect Sizes for Research Robert J. Grissom, John J. Kim, 2012-04-23 Noted for its comprehensive coverage this greatly expanded new edition now covers the use of univariate and multivariate effect sizes Many measures and estimators are reviewed along with their application interpretation and limitations Noted for its practical approach the book features numerous examples using real data for a variety of variables and designs to help readers apply the material to their own data Tips on the use of SPSS SAS R and S Plus are provided The book's broad disciplinary appeal results from its inclusion of a variety of examples from psychology medicine education and other social sciences Special attention is paid to confidence intervals the statistical assumptions of the methods and robust estimators of effect sizes The extensive reference section is appreciated by all With more than 40% new material highlights of the new edition include three new multivariate chapters covering effect sizes for analysis of covariance multiple regression correlation and multivariate analysis of variance more learning tools in each chapter including introductions summaries Tips and Pitfalls and more conceptual and computational questions more coverage of univariate effect sizes confidence intervals and effect sizes for repeated measures to reflect their increased use in research more software references for calculating effect sizes and their confidence intervals including SPSS SAS R and S Plus the data used in the book are now provided on the web along with new data and suggested calculations with IBM SPSS syntax for computational practice Effect Sizes for Research covers standardized and unstandardized differences between means correlational measures strength of association and parametric and nonparametric measures for between and within groups data Intended as a resource for professionals researchers and advanced students in a variety of fields this book is also an excellent supplement for advanced statistics courses in psychology education the social sciences business and medicine A prerequisite of introductory statistics through factorial analysis of variance and chi square is recommended

Effect Sizes for Research Robert J. Grissom, John J. Kim, 2014-04-04 The goal of this book is to inform a broad readership about a variety of measures and estimators of effect sizes for research their proper applications and interpretations and their limitations Its focus is on analyzing post research results The book provides an evenhanded account of controversial issues in the field such as the role of significance testing Consistent with the trend toward greater use of robust statistical methods the book pays much attention to the statistical assumptions of the methods and to robust measures of effect size Effect Sizes for Research discusses different effect sizes for a variety of kinds of variables designs circumstances and purposes It covers standardized differences between means correlational measures strength of association and confidence intervals The book clearly demonstrates how the choice of an appropriate measure might depend on such factors as whether variables are categorical ordinal or continuous satisfying assumptions the sampling method and the source of variability in the population It emphasizes a practical approach through worked examples using real data formulas and rationales for a variety of variables designs and purposes to help readers apply the material to their own data

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