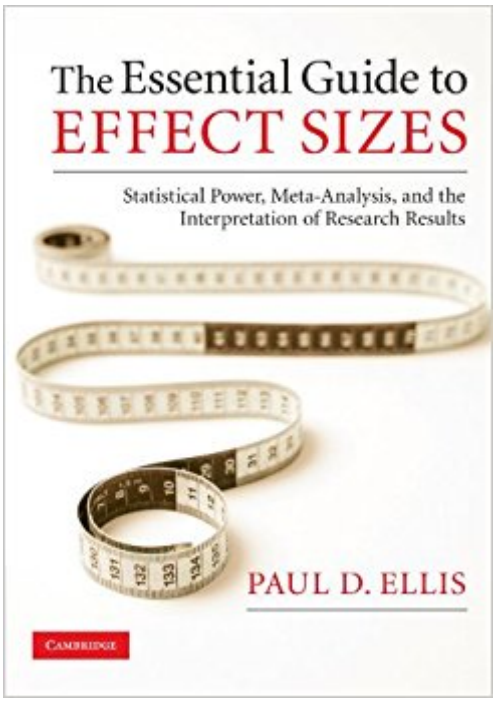
The Essential Guide To Effect Sizes: Statistical Power, Meta-Analysis, And The Interpretation Of Research Results



Synopsis

This succinct and jargon-free introduction to effect sizes gives students and researchers the tools they need to interpret the practical significance of their results. Using a class-tested approach that includes numerous examples and step-by-step exercises, it introduces and explains three of the most important issues relating to the practical significance of research results: the reporting and interpretation of effect sizes (Part I), the analysis of statistical power (Part II), and the meta-analytic pooling of effect size estimates drawn from different studies (Part III). The book concludes with a handy list of recommendations for those actively engaged in or currently preparing research projects.

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Customer Reviews

"Assessing the substantive significance of research is essential for both scientific progress and practical implications. This authoritative and well-written book gives relevant examples of key issues and offers practical guidelines for assessing the importance of research findings. The book concludes with clear recommendations for designing and carrying out good research and for assessing and reporting research findings." William H. Starbuck, Professor-in-Residence, University of Oregon, and Professor Emeritus, New York University"Paul Ellis writes with a light touch, explains well, and uses numerous practical examples. He focuses on four of the issues that are central to the statistical changes now sweeping many disciplines - effect sizes, confidence intervals, power, and meta-analysis. This is a highly readable, highly practical book. It will be invaluable to anyone who

wishes to contribute to - or even just understand - the research of the future." Geoff Cumming, Emeritus Professor, School of Psychological Science, La Trobe University, Australia

This succinct and jargon-free introduction to effect sizes gives students and researchers the tools they need to interpret the practical significance of their results. Using a class-tested approach, it explains the reporting and interpretation of effect sizes, the analysis of statistical power, and the meta-analytic pooling of effect size estimates.

Exceptionally lucid overview of power analysis, effect sizes, sample size calculations and related topics. Along the way, the book also provides a good overview of the null hypothesis significance testing controversy, the problems with familywise alpha corrections like Bonferroni, publication bias, the almost-universal misinterpretation of p-values and other methodological issues. Heartily recommended as a practical guide for researchers and statisticians, but also for readers with an interest in the foundations of statistics or the sociology of science.Most statistics courses gloss over power analysis, and after all, there’s only five or six equations (or one piece of software) that you need to learn how to use, but it absolutely pays to have a methodological grasp of what it is you’re doing when calculating a sample size or estimating power. Again, wonderful book.

In healthcare, effect size understanding is necessary during informing decision analysis (Lang & Secic). Well written, easy to understand with a basic knowledge of statistics.

This is a very good book! A bit more oriented toward academic/publishing perspective but full of practical insights that business users / practitioners such as myself can truly benefit from. With the proliferation of "a/b testing" with online world and commonplace, yet important questions on sample sizes, proper way of setting up experiments, all the way to data mining (pitfalls of opportunistic "finding something") - this book, to me, gave lot of food for thought.

I thoroughly enjoyed this and read it twice. Later I incorporated the information into a module in my advanced stats class for doctoral students. The topic was perfect for them, and the comfortable writing style made the book a delight to read. As noted by the author - some people write to impress and others to instruct. This book is for instruction.

I found this book to be an excellent primr that helped me grasp the concept of effect size. Prior

reviewers of this book have done an excellent job documenting the content so I need not re-type a content description. I will add that Mr. Ellis done an exceptional job of making the concepts accessible to the lay reader interested in meta-analysis and effect size. His examples and explanations help grasp the concepts and appreciate the nuances of the parameters he is describing. I would recommend this book as a great place to start to understand these concepts.

Easy to read, understand, and follow...if you’re wanting to know more about meta-analysis and effect sizes, this is the book for you!

I really recommend this for those who (like me) is starting meta-analytical research. The book is very compact, the language is easy. It is not, however, too easy. I’m reading it already for the second time and enjoy it a lot. I like that Dr. Ellis is not only describing research maths but also suggesting to keep in mind the practical purpose of the researh. I told my collegues on the morning after I read the book for the first time: "I was blind before". The book gives you a potential to create your first meta-analysis quite easilly.

Very important book for any student taking starts! It clarifies and introduces key concepts that some professors either cut out or over look for classroom material

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