

Introduction to meta-analysis / Michael Borenstein ... [et al.]

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Abstrak

This book provides a clear and thorough introduction to metaanalysis, the process of synthesizing data from a series of separate studies. Metaanalysis has become a critically important tool in fields as diverse as medicine, pharmacology, epidemiology, education, psychology, business, and ecology. Introduction to MetaAnalysis : Outlines the role of metaanalysis in the research process Shows how to compute effects sizes and treatment effects Explains the fixedeffect and randomeffects models for synthesizing data Demonstrates how to assess and interpret variation in effect size across studies Clarifies concepts using text and figures, followed by formulas and examples Explains how to avoid common mistakes in metaanalysis Discusses controversies in metaanalysis Features a web site with additional material and exercises A superb combination of lucid prose and informative graphics, written by four of the worlds leading experts on all aspects of metaanalysis. Borenstein, Hedges, Higgins, and Rothstein provide a refreshing departure from cookbook approaches with their clear explanations of the what and why of metaanalysis. The approach taken by Introduction to Metaanalysis is intended to be primarily conceptual, and it is amazingly successful at achieving that goal. The reader can comfortably skip the formulas and still understand their application and underlying motivation. For the more statistically sophisticated reader, the relevant formulas and worked examples provide a superb practical guide to performing a metaanalysis. The book provides an eclectic mix of examples from education, social science, biomedical studies, and even ecology.