Statistical Power Analysis with Missing Data: A Structural Equation Modeling Approach

Adam Davey, Jyoti "Tina" Savla

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Statistical power analysis has revolutionized the ways in which we conduct and evaluate research. Similar developments in the statistical analysis of incomplete (missing) data are gaining more widespread applications. This volume brings statistical power and incomplete data together under a common framework, in a way that is readily accessible to those with only an introductory familiarity with structural equation modeling. It answers many practical questions such as:

- How missing data affects the statistical power in a study
- How much power is likely with different amounts and types of missing data
- How to increase the power of a design in the presence of missing data, and
- How to identify the most powerful design in the presence of missing data.

*Points of Reflectio*n encourage readers to stop and test their understanding of the material. *Try Me* sections test one's ability to apply the material. *Troubleshooting Tips* help to prevent commonly encountered problems. Exercises reinforce content and *Additional Readings* provide sources for delving more deeply into selected topics. Numerous examples demonstrate the book's application to a variety of disciplines. Each issue is accompanied by its potential strengths and shortcomings and examples using a variety of software packages (SAS, SPSS, Stata, LISREL, AMOS, and MPlus). Syntax is provided using a single software program to promote continuity but in each case, parallel syntax using the other packages is presented in appendixes. The worked examples in Part 2 also provide results from a wider set of estimated models. These tables, and accompanying syntax, can be used to estimate statistical power or required sample size for similar problems under a wide range of conditions.

Class-tested at Temple, Virginia Tech, and Miami University of Ohio, this brief text is an ideal supplement for graduate courses in applied statistics, statistics II, intermediate or advanced statistics, experimental design, structural equation modeling, power analysis, and research methods taught in departments of psychology, human development, education, sociology, nursing, social work, gerontology and other social and health sciences. The book's applied approach will also appeal to researchers in these areas. Sections covering *Fundamentals*, *Applications*, and *Extensions* are designed to take readers from first steps to mastery.

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