Testing Statistical Hypotheses of Equivalence

Stefan Wellek
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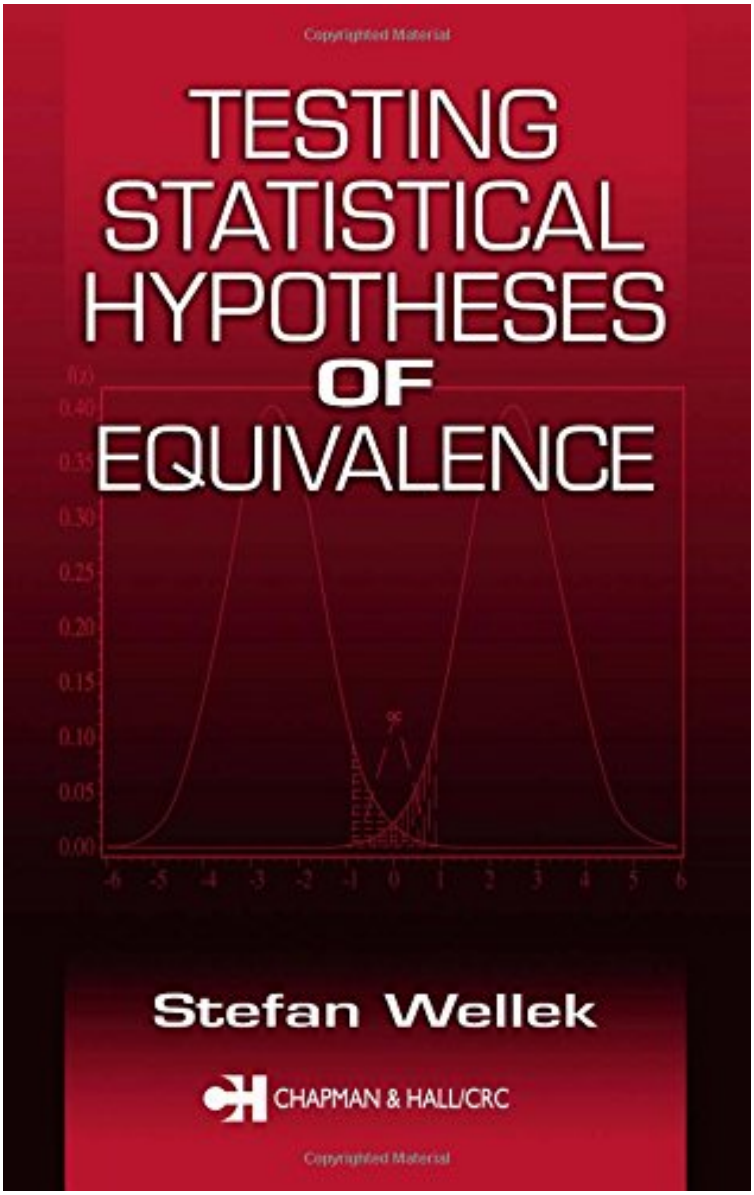

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Stefan Wellek : Testing Statistical Hypotheses of Equivalence before purchasing it in order to gage whether or not it would be worth my time, and all praised Testing Statistical Hypotheses of Equivalence:

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Equivalence testing has grown significantly in importance over the last two decades, especially as its relevance to a variety of applications has become understood. Yet published work on the general methodology remains scattered in specialists' journals, and for the most part, it focuses on the relatively narrow topic of bioequivalence assessment.With a far broader perspective, Testing Statistical Hypotheses of Equivalence provides the first comprehensive treatment of statistical equivalence testing. The author addresses a spectrum of specific, two-sided equivalence testing problems, from the one-sample problem with normally distributed observations of fixed known variance to problems involving several samples and multivariate data. The treatment includes a concise review of basic mathematical results on optimal tests for equivalence, and the author makes available on the Internet a collection of computer programs that allow easy implementation of the methods presented.In a field as complex and rich in potential applications as equivalence testing, Testing Statistical Hypotheses of Equivalence stands alone as a coherent reference that furnishes both the theoretical and practical tools needed for dealing with equivalence trials of any complexity and in any phase.

The main value of the book is in its rather comprehensive and explicit treatment of various tests for equivalence problems. The book is very carefully written and mathematically correct..applied (bio-)statisticians may find this book a helpful manual for various testing procedures in the field of equivalence testing. These procedures are very carefully described and are accompanied by SAS of Fortran code. More mathematically oriented readers may regard this book as a good source of examples, and the thorough discussion of relevant practical questions in the field might stimulate them to doing further research in this area. -Journal of the American Statistical Association, March 2004The book is well organized for the applied statistician with an interest in the theoretical background for statistical procedures. What is especially useful about this book for the applied statistician is that the author weaves into the presentation of the equivalence tests, discussions of power, and sample size as well as simulation results that evaluate the small sample properties of the tests. In addition, a location on the World Wide Web where one can find SAS programs to facilitate the implementation of these tests is provided... Wellek has provided a text on equivalence testing that the applied statistician will find useful both as a theory underlying equivalence testing as well as a source of equivalence tests and tools for their implementation for a wide variety of situations. -Journal of Biopharmaceutical StatisticsThe publication of a book specifically dealing with the statistical issues and methods surrounding the assessment of equivalence is timely...the primary objective of this book is stated to be: 'a systematic and comprehensive account of testing procedures for the alternative hypothesis'. It achieves this well. -Current Medical Research Opinion (CMRO) 2004.. this book provides the reader with the opportunity to do equivalence testing for various statistical problems. The author has helpfully provided a collection of computer programs (in SAS and Fortran) that allow for easy implementation of the methods presented...I was left feeling that this book provides a good grounding in statistical techniques to do hypothesis testing in equivalence trials.-Pharmaceutical Statistics, 2003Wellek has done a commendable service to the academic community by providing the first comprehensive treatment of testing hypotheses of equivalence, since most of the work in this area so far is confined to research journals. Overall, this excellent book has great potential for applications and should interest students and researchers alike. Summing Up: Highly recommended. - D.V. Chopra in CHOICE