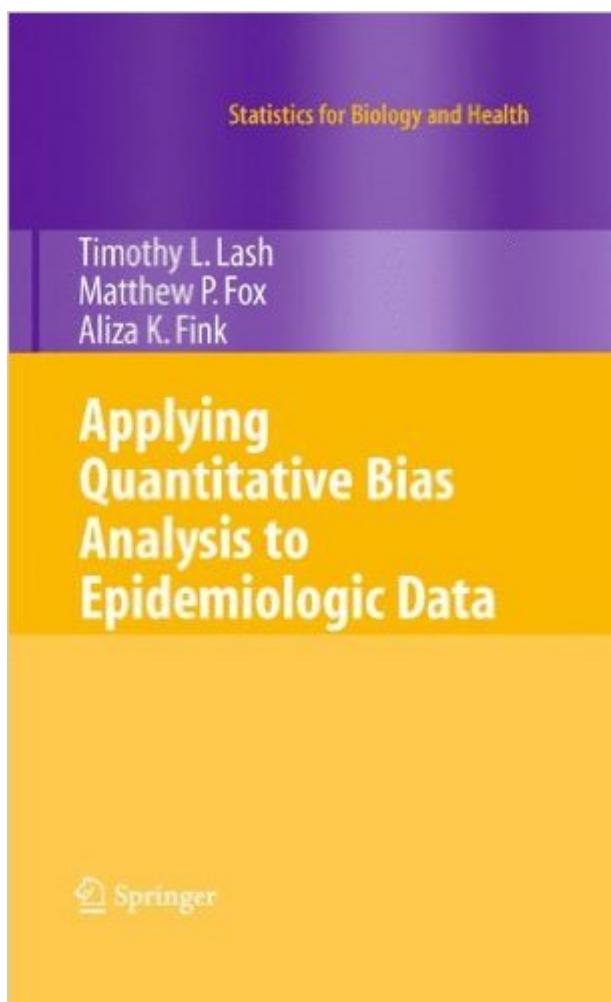


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Applying Quantitative Bias Analysis To Epidemiologic Data (Statistics For Biology And Health)



Synopsis

Bias analysis quantifies the influence of systematic error on an epidemiology study's estimate of association. The fundamental methods of bias analysis in epidemiology have been well described for decades, yet are seldom applied in published presentations of epidemiologic research. More recent advances in bias analysis, such as probabilistic bias analysis, appear even more rarely. We suspect that there are both supply-side and demand-side explanations for the scarcity of bias analysis. On the demand side, journal reviewers and editors seldom request that authors address systematic error aside from listing them as limitations of their particular study. This listing is often accompanied by explanations for why the limitations should not pose much concern. On the supply side, methods for bias analysis receive little attention in most epidemiology curriculums, are often scattered throughout textbooks or absent from them altogether, and cannot be implemented easily using standard statistical computing software. Our objective in this text is to reduce these supply-side barriers, with the hope that demand for quantitative bias analysis will follow.

Book Information

Series: Statistics for Biology and Health

Hardcover: 192 pages

Publisher: Springer; 2009 edition (May 12, 2009)

Language: English

ISBN-10: 0387879609

ISBN-13: 978-0387879604

Product Dimensions: 6.1 x 0.5 x 9.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

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