



Bias and Causation: Models and Judgment for Valid Comparisons

Herbert I. Weisberg

Download now

[Click here](#) if your download doesn't start automatically

Bias and Causation: Models and Judgment for Valid Comparisons

Herbert I. Weisberg

Bias and Causation: Models and Judgment for Valid Comparisons Herbert I. Weisberg

A one-of-a-kind resource on identifying and dealing with bias in statistical research on causal effects

Do cell phones cause cancer? Can a new curriculum increase student achievement? Determining what the real causes of such problems are, and how powerful their effects may be, are central issues in research across various fields of study. Some researchers are highly skeptical of drawing causal conclusions except in tightly controlled randomized experiments, while others discount the threats posed by different sources of bias, even in less rigorous observational studies. *Bias and Causation* presents a complete treatment of the subject, organizing and clarifying the diverse types of biases into a conceptual framework. The book treats various sources of bias in comparative studies—both randomized and observational—and offers guidance on how they should be addressed by researchers.

Utilizing a relatively simple mathematical approach, the author develops a theory of bias that outlines the essential nature of the problem and identifies the various sources of bias that are encountered in modern research. The book begins with an introduction to the study of causal inference and the related concepts and terminology. Next, an overview is provided of the methodological issues at the core of the difficulties posed by bias. Subsequent chapters explain the concepts of selection bias, confounding, intermediate causal factors, and information bias along with the distortion of a causal effect that can result when the exposure and/or the outcome is measured with error. The book concludes with a new classification of twenty general sources of bias and practical advice on how mathematical modeling and expert judgment can be combined to achieve the most credible causal conclusions.

Throughout the book, examples from the fields of medicine, public policy, and education are incorporated into the presentation of various topics. In addition, six detailed case studies illustrate concrete examples of the significance of biases in everyday research.

Requiring only a basic understanding of statistics and probability theory, *Bias and Causation* is an excellent supplement for courses on research methods and applied statistics at the upper-undergraduate and graduate level. It is also a valuable reference for practicing researchers and methodologists in various fields of study who work with statistical data.

This book was selected as the **2011 Ziegel Prize Winner in Technometrics** for the best book reviewed by the journal.

It is also the winner of the **2010 PROSE Award for Mathematics** from The American Publishers Awards for Professional and Scholarly Excellence

 [Download Bias and Causation: Models and Judgment for Valid ...pdf](#)

 [Read Online Bias and Causation: Models and Judgment for Vali ...pdf](#)

Download and Read Free Online Bias and Causation: Models and Judgment for Valid Comparisons Herbert I. Weisberg

From reader reviews:

Sean Scruggs:

Spent a free the perfect time to be fun activity to complete! A lot of people spent their free time with their family, or all their friends. Usually they undertaking activity like watching television, planning to beach, or picnic in the park. They actually doing same every week. Do you feel it? Will you something different to fill your own personal free time/ holiday? May be reading a book may be option to fill your free of charge time/ holiday. The first thing that you will ask may be what kinds of publication that you should read. If you want to try out look for book, may be the book untitled Bias and Causation: Models and Judgment for Valid Comparisons can be good book to read. May be it could be best activity to you.

William Jimenes:

Is it a person who having spare time after that spend it whole day through watching television programs or just telling lies on the bed? Do you need something new? This Bias and Causation: Models and Judgment for Valid Comparisons can be the answer, oh how comes? It's a book you know. You are and so out of date, spending your time by reading in this brand new era is common not a nerd activity. So what these publications have than the others?

Terry White:

You can get this Bias and Causation: Models and Judgment for Valid Comparisons by go to the bookstore or Mall. Simply viewing or reviewing it could possibly to be your solve issue if you get difficulties to your knowledge. Kinds of this reserve are various. Not only by means of written or printed and also can you enjoy this book by means of e-book. In the modern era such as now, you just looking of your mobile phone and searching what their problem. Right now, choose your own personal ways to get more information about your guide. It is most important to arrange you to ultimately make your knowledge are still upgrade. Let's try to choose appropriate ways for you.

Warner Gomez:

Do you like reading a e-book? Confuse to looking for your preferred book? Or your book ended up being rare? Why so many concern for the book? But virtually any people feel that they enjoy for reading. Some people likes examining, not only science book but also novel and Bias and Causation: Models and Judgment for Valid Comparisons or others sources were given information for you. After you know how the truly amazing a book, you feel want to read more and more. Science reserve was created for teacher or students especially. Those publications are helping them to bring their knowledge. In other case, beside science reserve, any other book likes Bias and Causation: Models and Judgment for Valid Comparisons to make your spare time much more colorful. Many types of book like here.

**Download and Read Online Bias and Causation: Models and
Judgment for Valid Comparisons Herbert I. Weisberg
#HIWNOCTVBY**

Read Bias and Causation: Models and Judgment for Valid Comparisons by Herbert I. Weisberg for online ebook

Bias and Causation: Models and Judgment for Valid Comparisons by Herbert I. Weisberg Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Bias and Causation: Models and Judgment for Valid Comparisons by Herbert I. Weisberg books to read online.

Online Bias and Causation: Models and Judgment for Valid Comparisons by Herbert I. Weisberg ebook PDF download

Bias and Causation: Models and Judgment for Valid Comparisons by Herbert I. Weisberg Doc

Bias and Causation: Models and Judgment for Valid Comparisons by Herbert I. Weisberg Mobipocket

Bias and Causation: Models and Judgment for Valid Comparisons by Herbert I. Weisberg EPub