



Statistical Misconceptions

By Schuyler W. Huck

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Brief and inexpensive, this engaging book helps readers identify and then discard 52 misconceptions about data and statistical summaries. The focus is on major concepts contained in typical undergraduate and graduate courses in statistics, research methods, or quantitative analysis. Fun interactive Internet exercises that further promote undoing the misconceptions are found on the book's website.

The author's accessible discussion of each misconception has five parts:

- The Misconception - a brief description of the misunderstanding
- Evidence that the Misconception Exists – examples and claimed prevalence
- Why the Misconception is Dangerous – consequence of having the misunderstanding
- Undoing the Misconception - how to think correctly about the concept
- Internet Assignment - an interactive activity to help readers gain a firm grasp of the statistical concept and overcome the misconception.

The book's statistical misconceptions are grouped into 12 chapters that match the topics typically taught in introductory/intermediate courses. However, each of the 52 discussions is self-contained, thus allowing the misconceptions to be covered in any order without confusing the reader. Organized and presented in this manner, the book is an ideal supplement for any standard textbook.

Statistical Misconceptions is appropriate for courses taught in a variety of disciplines including psychology, medicine, education, nursing, business, and the social sciences. The book also will benefit independent researchers interested in undoing their statistical misconceptions.

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Editorial Review

Review

"There is a great need for a text to discuss the misconceptions in order to eliminate the myths... The author writes exceptionally well." - **Nancy L. Leech, University of Colorado at Denver**

"I sometimes feel that I spend as much time getting my students to 'unlearn' wrong ideas as I do getting them to learn new material ... I have always been impressed by the clarity of Dr. Huck's writing ... I could well imagine adopting the book as a secondary text in the graduate-level introductory psychology statistics course [and] recommend it to students who come to me for statistical consulting." - **Scott Maxwell, University of Notre Dame**

"Readable, great examples... and actually fun... The Internet exercises will go a long way in terms of illustrating the misconception... [useful] at either the undergraduate or graduate level." - **Richard Lomax, The Ohio State University**

"[An] innovative and much-needed focus on the misconceptions that abound around statistical methods ... I consider [the author's books] to be among the best ... available for the undergraduate curriculum." - **Joseph S. Rossi, University of Rhode Island**

About the Author

Schuyler W. Huck is a Professor of Educational Psychology at the University of Tennessee – Knoxville. He received his Ph.D. from Northwestern University. A former President of AERA's Educational Statisticians SIG, in 2004 he was elected to Chair AERA's SIG Executive Committee and a member of AERA's governing board. His previously published books include *Reading Statistics & Research*, 4/e (A&B) 2004, *Statistical Illusions* (HC) 1983, & *Rival Hypotheses* (Harper) 1979.

Users Review

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Lillie Moreland:

Information is provisions for folks to get better life, information currently can get by anyone in everywhere. The information can be a know-how or any news even an issue. What people must be consider if those information which is inside former life are challenging to be find than now is taking seriously which one is appropriate to believe or which one the particular resource are convinced. If you find the unstable resource then you get it as your main information there will be huge disadvantage for you. All those possibilities will not happen throughout you if you take Statistical Misconceptions as your daily resource information.

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