Data Analysis and Approximate Models: Model Choice, Location-Scale, Analysis of Variance, Nonparametric Regression and Image Analysis (Chapman & ... on Statistics & Applied Probability)

By Patrick Laurie Davies

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The First Detailed Account of Statistical Analysis That Treats Models as Approximations

The idea of truth plays a role in both Bayesian and frequentist statistics. The Bayesian concept of coherence is based on the fact that two different models or parameter values cannot both be true. Frequentist statistics is formulated as the problem of estimating the "true but unknown" parameter value that generated the data.

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- Rank: #3434450 in Books
- Published on: 2014-07-07
- Original language: English
- Number of items: 1
- Dimensions: .90" h x 6.10" w x 9.30" l, .0 pounds
- Binding: Hardcover
- 320 pages

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Review

"Davies tackles the problem of the foundations of statistics. … reading this book will make you think and question your own views on statistics. It reminds us that the foundations of statistics are still, and more than ever, open to discussion."
?*Mathematical Reviews*, August 2015

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