



## Statistical Models (Cambridge Series in Statistical and Probabilistic Mathematics)

By A. C. Davison

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Models and likelihood are the backbone of modern statistics. This 2003 book gives an integrated development of these topics that blends theory and practice, intended for advanced undergraduate and graduate students, researchers and practitioners. Its breadth is unrivaled, with sections on survival analysis, missing data, Markov chains, Markov random fields, point processes, graphical models, simulation and Markov chain Monte Carlo, estimating functions, asymptotic approximations, local likelihood and spline regressions as well as on more standard topics such as likelihood and linear and generalized linear models. Each chapter contains a wide range of problems and exercises. Practicals in the S language designed to build computing and data analysis skills, and a library of data sets to accompany the book, are available over the Web.

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- Rank: #407333 in eBooks
- Published on: 2003-08-04
- Released on: 2003-08-04
- Format: Kindle eBook

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"Davison provides sound statistical tools to tackle applications in a concise, succinct tutelage, yet without abandoning mathematical sophistication or detail...a wonderfully rich treatise of cleverly attended-to examples and charming asides...we actually learned a lot and deepened our understanding of many topics."  
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Ramalingam Shanmugam, Texas State University

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#### About the Author

Anthony Davison is a Professor of Statistics at the Ecole Polytechnique Federale de Lausanne.

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