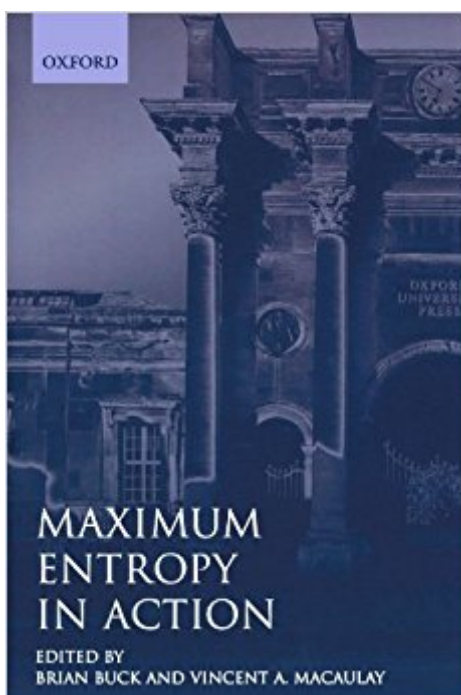


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Maximum Entropy In Action: A Collection Of Expository Essays



Synopsis

This book is a collection of introductory, interdisciplinary articles and lectures covering the fundamentals of the maximum entropy approach, a powerful new technique that provides a much needed extension of the established principles of rational inference in the sciences. Maximum entropy allows the interpretation of incomplete and "noisy" data, providing a description of the underlying physical systems. It has found application in both practical and theoretical studies ranging from image enhancement to nuclear physics, and from statistical mechanics to economics. The work explores these applications with specific problems of data analysis taken from the physical sciences. It will interest all physical scientists who deal with data and its interpretation, including statisticians and statistical physicists.

Book Information

Paperback: 248 pages

Publisher: Oxford University Press (September 26, 1991)

Language: English

ISBN-10: 0198539630

ISBN-13: 978-0198539636

Product Dimensions: 6.2 x 0.6 x 9.2 inches

Shipping Weight: 14.9 ounces (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars 1 customer review

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'the book is quite up-to-date ... generally very positive impression given by this book, which includes research results extending up to 1991 ... This fascinating universal concept opens up many new possibilities for the analysis of spectra, images, and X-ray scattering data. Because of the wide range of aspects covered in this book, it can be thoroughly recommended.' Christian Griesinger, Institut für Organische Chemie der Universität Frankfurt/Main, *Angewandte Chemie*, 31/7, 1992 'a useful and enlightening introduction to the general subject area and a reader interested in learning about possible applications of maximum entropy techniques could do far worse than to start by reading the concrete subject-centered articles in this volume' George H. Weiss, National Institutes of

Health, Bethesda, Journal of Statistical Physics, Vol. 70, Nos 3/4, 1993`The volume is rather welcome not only because it is almost unique in this field, but also because it spans commendably the gulf between elementary ideas and their technical applications ... a collection of nice expositions that can provide a solid introduction to the use of maximum-entropy techniques in data analysis, and in that sense fills a definite need.'W.T. Grandy, University of Wyoming, Journal of Atmospheric and Terrestrial Physics, Vol. 57, No. 1, 1995

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I bought it as "tutorial" on maximum entropy. In that sense it's book about nothing new and also about nothing. Blah-blah-blah, bunch of "copy & paste" even when author pretends it's his own words, then some water, then how that certain author thinks about all this, with all his non-existing authority. In reality, it's more like set of ad-hoc techniques for solving VERY specific tasks, which are very far from being fundamental and from being "tutorial" as well.

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