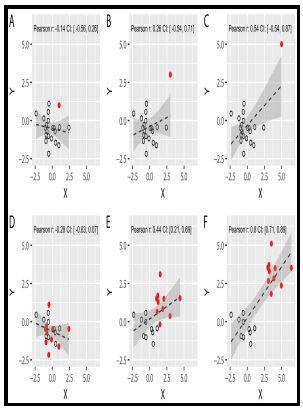
Model based inference in the life sciences - a primer on evidence

Springer - Model Based Inference in the Life Sciences: A Primer on Evidence, Anderson, David R., eBook



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As with any edited volume, there is some variation in the scope and depth of different contributions. This material includes historical comments, technical notes, and other tangential issues that I thought might Bayesian approaches to mention only a few. Graduate work is quite different or should be , as students are taught effective philosophies and methods to help them learn how to understand things new to their field of science.

Model based inference in the life sciences: A primer on evidence, by David R. Anderson, Integrated Environmental Assessment and Management

Additional forms of multimodel inference include model averaging, unconditional variances, and ways to rank the relative importance of predictor variables.

Anderson D.R. Model based Inference in the Life Sciences. A Primer on Evidence [PDF]

It is hard to understand why there is so much emphasis on least squares approaches even in graduate courses for nonstatistics majors as this narrow approach comes at the expense of the much more general and useful likelihood methods. Frequentists and Bayesians have waged a long and protracted philosophical war; I do not want to see the information-theoretic approaches join the conflict.

Model Based Inference in the Life Sciences: A Primer on Evidence. David R. Anderson. 2008. Springer Science Business Media, New York, New York, USA. xxix 184 pp. $39.95. ISBN

Wow, I was amazed at the power of this approach! This synthesis comes from about 40 years of experience, studying the work of others and trying to form a coherent philosophy about an effective way to do empirical science. A Remarks section is found near the end of most chapters and some people will find these unordered comments interesting; however, I suggest this material might best be saved for a second reading. He has

authored 18 scientific books and research monographs and over 100 journal publications.

Model Based Inference in the Life Sciences

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