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Our method for the evaluation of these models is to generate a large number of possible mixing polygons with a Monte Carlo simulation, using the same uncertainty incorporated in the Bayesian mixing models and testing these polygons for point-in-polygon (i.e. the ability to establish mass balance).

Analytic Methods in Systems and Software Testing - Wiley.com

About the Author. WILLIAM M. BOLSTAD, PhD, is a retired Senior Lecturer in the Department of Statistics at The University of Waikato, New Zealand. Dr. Bolstad's research interests include Bayesian statistics, MCMC methods, recursive estimation techniques, multiprocess dynamic time series models, and forecasting.

Bayesian Biostatistics | Wiley

Bayesian Econometrics introduces the reader to the use of Bayesian methods in the field of econometrics at the advanced undergraduate or graduate level. The book is self-contained and does not require that readers have previous training in econometrics. The focus is on models used by applied economists and the computational techniques necessary to implement Bayesian methods when doing ...

Bayesian inference - Wikipedia

Christian Robert and George Casella (1999) Monte Carlo Statistical Methods , Springer Verlag, NY. Jim Berger (1995) Statistical Decision Theory and Bayesian Analysis, Second Edition, Springer Verlag, NY.

Peter Congdon (2001) Bayesian Statistical Modelling, Wiley. Bernardo, J.M. and Smith, A.F.M. (1994) Bayesian Theory , Wiley.

boral – Bayesian Ordination and Regression Analysis of ...

Bayesian inference is a method of statistical inference in which Bayes' theorem is used to update the probability for a hypothesis as more evidence or information becomes available. Bayesian inference is an important technique in statistics, and especially in mathematical statistics. Bayesian updating is particularly important in the dynamic analysis of a sequence of data.

Review and Validation of Bayesian Dose?Optimizing Software ...

boral (version 0.9.1, licence GPL?2) is an r package available on cran for model?based analysis of multivariate abundance data, with estimation performed using Bayesian Markov chain Monte Carlo methods. A key feature of the boral package is the ability to incorporate latent variables as a parsimonious method of modelling between species

...

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Presents a unified treatment of Bayesian methods in marketing, with common notation and algorithms for estimating the models. Provides a self-contained introduction to Bayesian methods.

Bayesian Statistics and Marketing | Wiley Series in ...

Bayes Linear Statistics is essential reading for all statisticians concerned with the theory and practice of Bayesian methods. There is an accompanying website hosting free software and guides to the calculations within the book.

Bayesian Econometrics | Wiley

Presents the Bayesian approach to statistical signal processing for a variety of useful model sets . This book aims to give readers a unified Bayesian treatment starting from the basics (Baye's rule) to the more advanced (Monte Carlo sampling), evolving to the next-generation model-based techniques (sequential Monte Carlo sampling).

Bayesian Theory | Wiley

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Bayesian Networks: An Introduction provides a self-contained introduction to the theory and applications of Bayesian networks, a topic of interest and importance for statisticians, computer scientists and those involved in modelling complex data sets. The material has been extensively tested in classroom teaching and assumes a basic knowledge of probability, statistics and mathematics.

Wiley Higher Education Supplementary Website

Five Bayesian dose-optimizing software programs (Adult and Pediatric Kinetics [APK], BestDose, DoseMe, InsightRx, and Precise PK) and two first-order pharmacokinetic equations were included. Of the Bayesian programs, InsightRx was the most adaptable, visually appealing, easiest to use, and had the most company support.

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The growth of biostatistics has been phenomenal in recent years and has been marked by considerable technical innovation in both methodology and computational practicality. One area that has experienced significant growth is Bayesian methods. The growing use of Bayesian methodology has taken place partly due to an increasing number of practitioners valuing the Bayesian paradigm as matching ...

Bayesian Methods and Ethics in a ... - Wiley Online Library
Emmanuel Lesaffre, Professor of Statistics, Biostatistical Centre,
Catholic University of Leuven, Leuven, Belgium. Dr Lesaffre has worked
on and studied various areas of biostatistics for 25 years. He has
taught a variety of courses to students from many disciplines, from
medicine and pharmacy, to statistics and engineering, teaching
Bayesian statistics for the last 5 years.

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