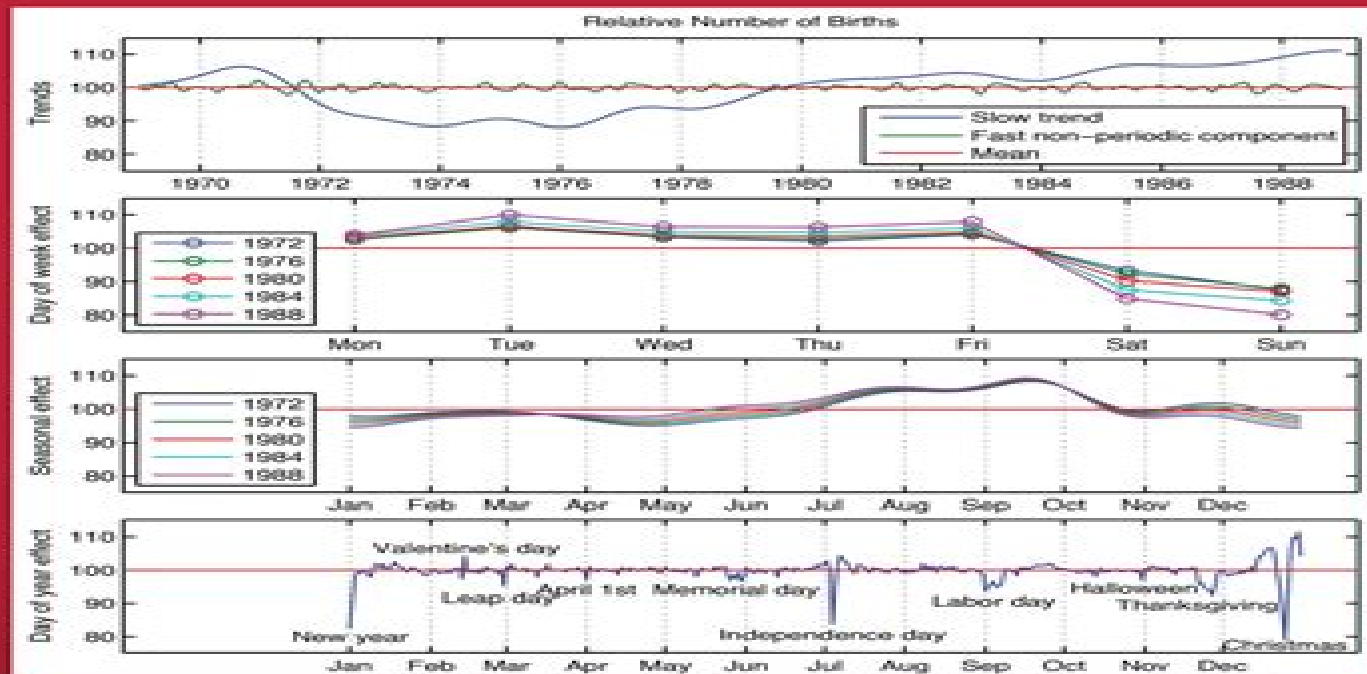


Texts in Statistical Science

Bayesian Data Analysis

Third Edition



Andrew Gelman, John B. Carlin, Hal S. Stern,
David B. Dunson, Aki Vehtari, and Donald B. Rubin

Bayesian Data Analysis Third Edition

Annette J. Dobson, Adrian Barnett



Bayesian Data Analysis Third Edition:

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continues to take an applied **Bayesian Data Analysis, Second Edition** Andrew Gelman, John B. Carlin, Hal S. Stern, Donald B. Rubin, 2003-07-29 Incorporating new and updated information this second edition of THE bestselling text in Bayesian data analysis continues to emphasize practice over theory describing how to conceptualize perform and critique statistical analyses from a Bayesian perspective Its world class authors provide guidance on all aspects of Bayesian data analysis and include examples of real statistical analyses based on their own research that demonstrate how to solve complicated problems Changes in the new edition include Stronger focus on MCMC Revision of the computational advice in Part III New chapters on nonlinear models and decision analysis Several additional applied examples from the authors recent research Additional chapters on current models for Bayesian data analysis such as nonlinear models generalized linear mixed models and more Reorganization of chapters 6 and 7 on model checking and data collection Bayesian computation is currently at a stage where there are many reasonable ways to compute any given posterior distribution However the best approach is not always clear ahead of time Reflecting this the new edition offers a more pluralistic presentation giving advice on performing computations from many perspectives while making clear the importance of being aware that there are different ways to implement any given iterative simulation computation The new approach additional examples and updated information make Bayesian Data Analysis an excellent introductory text and a reference that working scientists will use throughout their professional life Multivariate Survival Analysis and Competing Risks Martin J. Crowder, 2012-04-17 Multivariate Survival Analysis and Competing Risks introduces univariate survival analysis and extends it to the multivariate case It covers competing risks and counting processes and provides many real world examples exercises and R code The text discusses survival data survival distributions frailty models parametric methods multivariate **Stationary Stochastic Processes** Georg Lindgren, 2012-10-01 Intended for a second course in stationary processes Stationary Stochastic Processes Theory and Applications presents the theory behind the field s widely scattered applications in engineering and science In addition it reviews sample function properties and spectral representations for stationary processes and fields including a portion on stationary point processes Features Presents and illustrates the fundamental correlation and spectral methods for stochastic processes and random fields Explains how the basic theory is used in special applications like detection theory and signal processing spatial statistics and reliability Motivates mathematical theory from a statistical model building viewpoint Introduces a selection of special topics including extreme value theory filter theory long range dependence and point processes Provides more than 100 exercises with hints to solutions and selected full solutions This book covers key topics such as ergodicity crossing problems and extremes and opens the doors to a selection of special topics like extreme value theory filter theory long range dependence and point processes and includes many exercises and examples to illustrate the theory Precise in mathematical details without being pedantic Stationary Stochastic Processes Theory and Applications is for the student with some experience with stochastic processes and a desire for deeper understanding without getting bogged

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