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Bayesian Hierarchical Models Peter D. Congdon
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an intermediate level treatment of bayesian hierarchical models and their applications this book demonstrates the advantages of a bayesian approach to data sets involving inferences for collections of related units or variables and in methods where parameters can be treated as random collections through illustrative data analysis and attention to statistical computing this book facilitates practical implementation of bayesian hierarchical methods the new edition is a revision of the book applied bayesian hierarchical methods it maintains a focus on applied modelling and data analysis but now using entirely r based bayesian computing options it has been updated with a new chapter on regression for causal effects and one on computing options and strategies this latter chapter is particularly important due to recent advances in bayesian computing and estimation including the development of rjags and rstan it also features updates throughout with new examples the examples exploit and illustrate the broader advantages of the r computing environment while allowing readers to explore alternative likelihood assumptions regression structures and assumptions on prior densities features provides a comprehensive and accessible overview of applied bayesian hierarchical modelling includes many real data examples to illustrate different modelling topics r code based on rjags jagsui r2openbugs and rstan is integrated into the book emphasizing implementation software options and coding principles are introduced in new chapter on computing programs and data sets available on the book s website

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