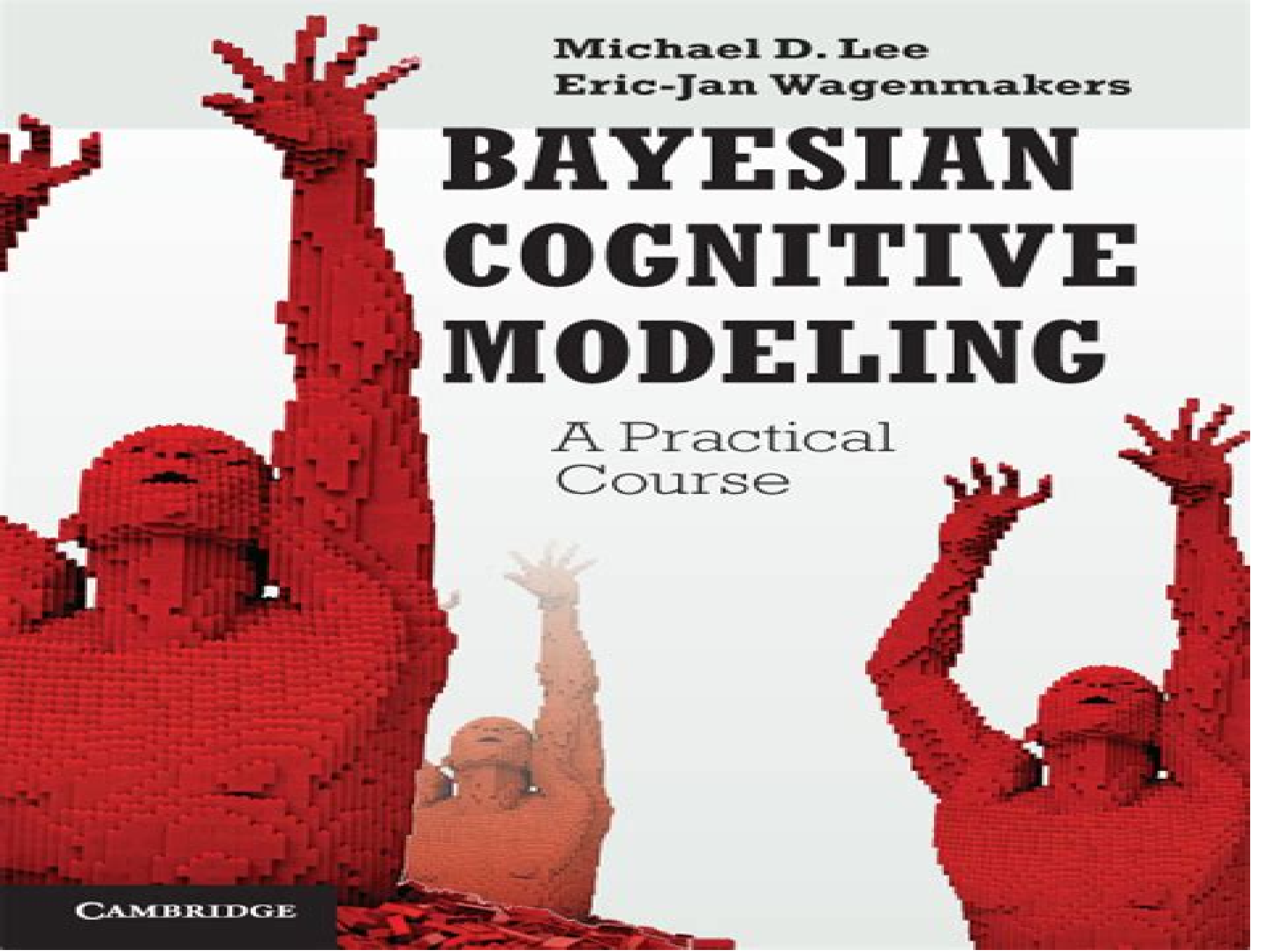


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interactive and easy to follow Full of practical content the book emphasizes the advantages of Bayesian model comparison over traditional approaches especially in quantifying evidence for competing hypotheses Readers will also learn how to perform sensitivity analyses to assess the impact of different prior assumptions on their results By the end of the book readers will get both the theoretical understanding and practical skills to implement Bayesian methods in their own research making it an invaluable resource for both novice and experienced researchers studying Bayesian statistics

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Introduction to Bayesian Data Analysis for Cognitive Science Bruno Nicenboim, Daniel J. Schad, Shravan Vasishth, 2025-08-21 This book introduces Bayesian data analysis and Bayesian cognitive modeling to students and researchers in cognitive science e g linguistics psycholinguistics psychology computer science with a particular focus on modeling data from planned experiments The book relies on the probabilistic programming language Stan and the R package brms which is a front end to Stan The book only assumes that the reader is familiar with the statistical programming language R and has basic high school exposure to pre calculus mathematics some of the important mathematical constructs needed for the book are introduced in the first chapter Through this book the reader will be able to develop a practical ability to apply Bayesian modeling within their own field The book begins with an informal introduction to foundational topics such as probability theory and univariate and bi multivariate discrete and continuous random variables Then the application of Bayes rule for statistical inference is introduced with several simple analytical examples that require no computing software the main insight here is that the posterior distribution of a parameter is a compromise between the prior and the likelihood functions The book then gradually builds up the regression framework using the brms package in R ultimately leading to hierarchical regression modeling aka the linear mixed model Along the way there is detailed discussion about the topic of prior selection and developing a well defined workflow Later chapters introduce the Stan programming language and cover

advanced topics using practical examples contrast coding model comparison using Bayes factors and cross validation hierarchical models and reparameterization defining custom distributions measurement error models and meta analysis and finally some examples of cognitive models multinomial processing trees finite mixture models and accumulator models Additional chapters appendices and exercises are provided as online materials and can be accessed here <https://github.com/bnicenboim/bayescogsci>

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Computational Modeling for Industrial-Organizational Psychologists Jeffrey B. Vancouver, Mo Wang, Justin M. Weinhardt, 2023-11-02 This collection provides a primer to the process and promise of computational modeling for industrial organizational psychologists With contributions by global experts in the field the book is designed to expand readers appreciation for computational modeling via chapters focused on key modeling achievements in domains relevant to industrial organizational psychology including decision making in organizations diversity and inclusion learning and training leadership and teams To move the use of computational modeling forward the book includes specific how to chapters on two of the most commonly used modeling approaches agent based modeling and system dynamics modeling It also gives guidance on how to evaluate these models qualitatively and quantitatively and offers advice on how to read review and publish papers with computational models The authors provide an extensive description of the myriad of values computational modeling can bring to the field highlighting how they offer a more transparent precise way to represent theories and can be simulated to offer a test of the internal consistency of a theory and allow for predictions This is accompanied by an overview of the history of computational modeling as it relates to I O psychology Throughout the authors reflect on computational modeling s journey looking back to its history as they imagine its future in I O psychology Each contribution demonstrates the value and opportunities computational modeling can provide the individual researcher research teams and fields of I O psychology and management This volume is an ideal resource for anyone interested in computational modeling from scholarly consumers to computational model creators Chapter 1 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

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