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based on a popular course taught by the late gian carlo rota of mit with many new topics covered as well introduction to probability with r presents r programs and animations to provide an intuitive yet rigorous understanding of how to model natural phenomena from a probabilistic point of view although the r programs are small in length they are just as sophisticated and powerful as longer programs in other languages this brevity makes it easy for students to become proficient in r this calculus based introduction organizes the material around key themes one of the most important themes centers on viewing probability as a way to look at the world helping students think and reason probabilistically the text also shows how to combine and link stochastic processes to form more complex processes that are better models of natural phenomena in addition it presents a unified treatment of transforms such as laplace fourier and z the foundations of fundamental stochastic processes using entropy and information and an introduction to markov chains from various viewpoints each chapter includes a short biographical note about a contributor to probability theory exercises and selected answers the book has an accompanying website with more information

vols 1 22 include the section recent publications upon economics

statistical rethinking a bayesian course with examples in r and stan builds readers knowledge of and confidence in statistical modeling reflecting the need for even minor programming in today s model based statistics the book pushes readers to perform step by step calculations that are usually automated this unique computational approach ensures that readers understand enough of the details to make reasonable choices and interpretations in their own modeling work the text presents generalized linear multilevel models from a bayesian perspective relying on a simple logical interpretation of bayesian probability and maximum entropy it covers from the basics of regression to multilevel models the author also discusses measurement error missing data and gaussian process models for spatial and network autocorrelation by using complete r code examples throughout this book provides a practical foundation for performing statistical inference designed for both phd students and seasoned professionals in the natural and social sciences it prepares them for more advanced or specialized statistical modeling resource the book is accompanied by an r package rethinking that is available on the author s website and github the two core functions map and map2stan of this package allow a variety of statistical models to be constructed from standard model formulas

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

researchers in the social sciences and beyond are dealing more and more with massive quantities of text data requiring analysis from historical letters to the constant stream of content in social media traditional texts on statistical analysis have focused on numbers but this book will provide a practical introduction to the quantitative analysis of textual data using up to date r methods this book will take readers through the text analysis process from text mining and pre processing the text to final analysis it includes two major case studies using historical and more contemporary text data to demonstrate the practical applications of these methods currently there is no introductory how to book on textual data analysis with r that is up to date and applicable across the social sciences code and a variety of additional resources are available on an accompanying website for the book

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