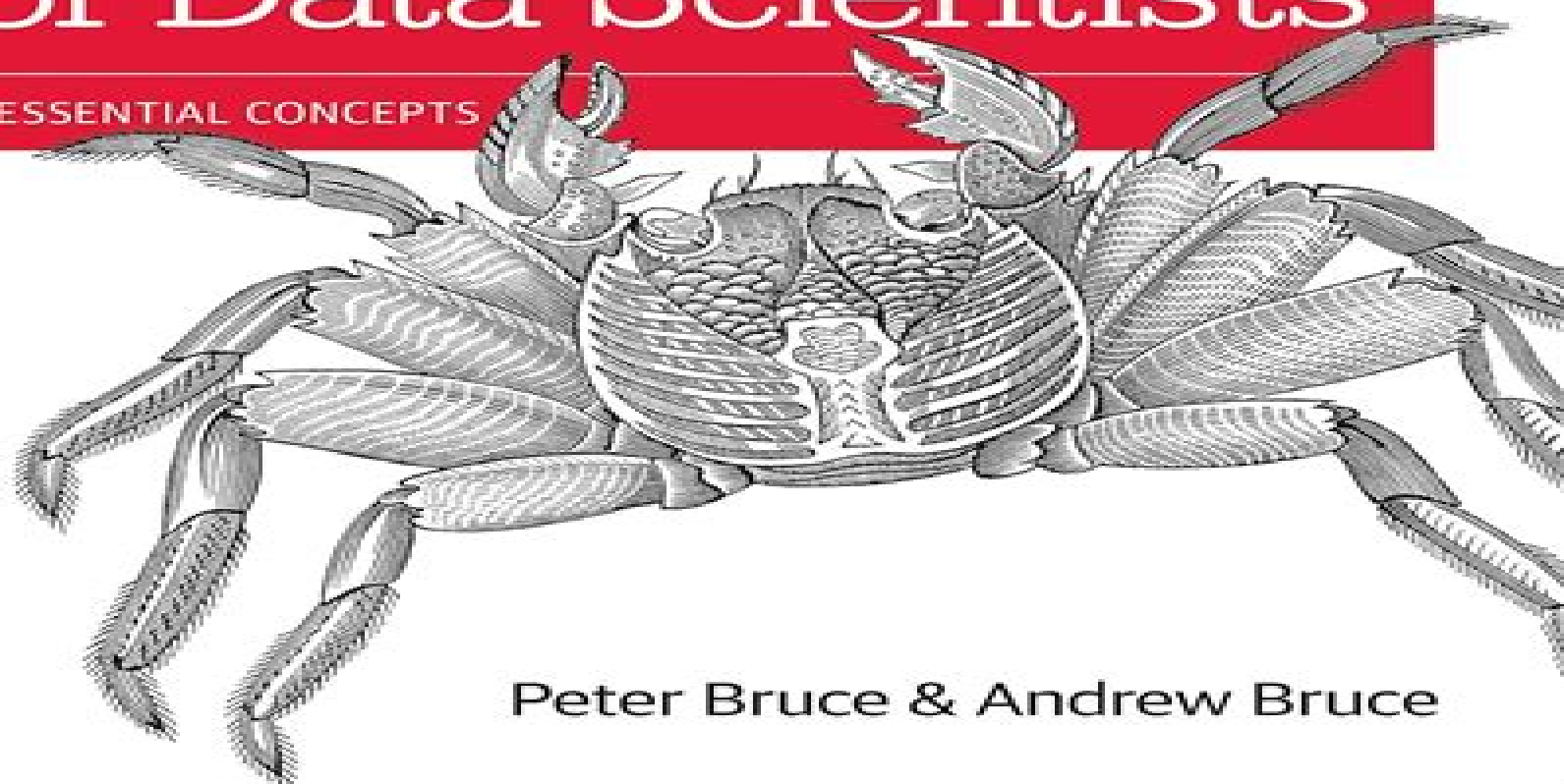


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50 ESSENTIAL CONCEPTS



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Practical Statistics For Data Scientists 50 Essential Concepts

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Visualizing History's Fragments Ashley R. Sanders, 2024-06-19 This book combines a methodological guide with an extended case study to show how digital research methods can be used to explore how ethnicity gender and kinship shaped early modern Algerian society and politics However the approaches presented have applications far beyond this specific study More broadly these methods are relevant for those interested in identifying and studying relational data demographics politics discourse authorial bias and social networks of both known and unnamed actors Ashley R Sanders explores how digital research methods can be used to study archival specters people who lived breathed and made their mark on history but whose presence in the archives and extant documents remains limited at best if not altogether lost Although digital tools cannot metaphorically resurrect the dead nor fill archival gaps they can help us excavate the people shaped outlines of those who might have filled these spaces The six methodological chapters explain why and how each research method is used present the visual and quantitative results and analyze them within the context of the historical case study In addition every dataset is available on SpringerLink as Electronic Supplementary Material ESM and each chapter is accompanied by one or more video tutorials that demonstrate how to apply each of the techniques described accessed via the SN More Media App

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Data Management Technologies and Applications Slimane Hammoudi, Christoph Quix, Jorge Bernardino, 2021-07-22 This book constitutes the thoroughly refereed proceedings of the 9th International Conference on Data Management Technologies and Applications DATA 2020 which was supposed to take place in Paris France in July 2020 Due to the Covid 19 pandemic the event was held virtually The 14 revised full papers were carefully reviewed and selected from 70 submissions The papers deal with the following topics datamining decision support systems data analytics data and information quality digital rights management big data knowledge management ontology engineering digital libraries mobile databases object oriented database systems data integrity

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Hydrometeorological Data Estimation Ramesh S.V. Teegavarapu, 2024-07-20 Missing data is a ubiquitous problem that plagues many hydrometeorological datasets Objective and robust spatial and temporal imputation methods are needed to estimate missing data and create error free gap free and chronologically continuous data This book is a comprehensive guide and reference for basic and advanced interpolation and data driven methods for imputing missing hydrometeorological data The book provides detailed insights into different imputation methods such as spatial and temporal interpolation universal function approximation and data mining assisted imputation methods It also introduces innovative spatial deterministic and stochastic methods focusing on the objective selection of control points and optimal spatial interpolation The book also extensively covers emerging machine learning techniques that can be used in spatial and temporal interpolation schemes and error and performance measures for assessing interpolation methods and validating imputed data The book demonstrates practical applications of these methods to real world hydrometeorological data It will cater to the needs of a broad spectrum of audiences from graduate students and researchers in climatology and hydrological and earth sciences to water engineering professionals from governmental agencies and private entities involved in the processing and use of hydrometeorological and climatological data **Best Practice Approaches in Women's Sports** Antonio Ardá

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perspective If you re familiar with the R or Python programming languages and have had some exposure to statistics but want to learn more this quick reference bridges the gap in an accessible readable format With this updated edition you ll dive into Exploratory data analysis Data and sampling distributions Statistical experiments and significance testing Regression and prediction Classification Statistical machine learning Unsupervised learning

Foundations of Statistics for Data Scientists Alan Agresti,Maria Kateri,2021-11-29 Foundations of Statistics for Data Scientists With R and Python is designed as a textbook for a one or two term introduction to mathematical statistics for students training to become data scientists It is an in depth presentation of the topics in statistical science with which any data scientist should be familiar including probability distributions descriptive and inferential statistical methods and linear modeling The book assumes knowledge of basic calculus so the presentation can focus on why it works as well as how to do it Compared to traditional mathematical statistics textbooks however the book has less emphasis on probability theory and more emphasis on using software to implement statistical methods and to conduct simulations to illustrate key concepts All statistical analyses in the book use R software with an appendix showing the same analyses with Python Key Features Shows the elements of statistical science that are important for students who plan to become data scientists Includes Bayesian and regularized fitting of models e g showing an example using the lasso classification and clustering and implementing methods with modern software R and Python Contains nearly 500 exercises The book also introduces modern topics that do not normally appear in mathematical statistics texts but are highly relevant for data scientists such as Bayesian inference generalized linear models for non normal responses e g logistic regression and Poisson loglinear models and regularized model fitting The nearly 500 exercises are grouped into Data Analysis and Applications and Methods and Concepts Appendices introduce R and Python and contain solutions for odd numbered exercises The book s website <http://stat4ds.rwth-aachen.de> has expanded R Python and Matlab appendices and all data sets from the examples and exercises

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