

2019 AP® STATISTICS FREE-RESPONSE QUESTIONS

STATISTICS

SECTION II

Part A

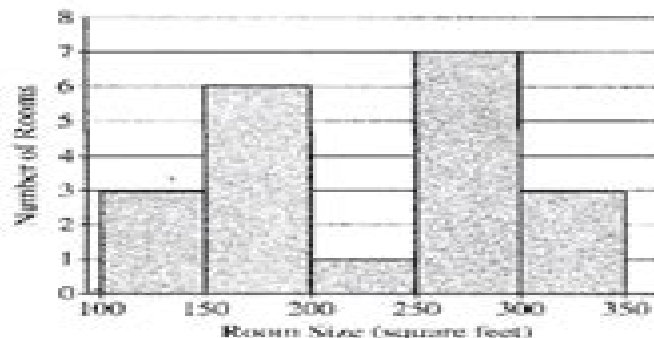
Questions 1-5

Spend about 1 hour and 5 minutes on this part of the exam.

Percent of Section II score—75

Directions: Show all your work. Indicate clearly the methods you use, because you will be scored on the correctness of your methods as well as on the accuracy and completeness of your results and explanations.

1. The sizes, in square feet, of the 20 rooms in a student residence hall at a certain university are summarized in the following histogram.



- (a) Based on the histogram, write a few sentences describing the distribution of room size in the residence hall.
 (b) Summary statistics for the sizes are given in the following table.

Mean	Standard Deviation	Min	Q1	Median	Q3	Max
231.4	68.12	134	174	253.5	292	315

(a) The spread is about $(350 - 100) = 250 \text{ ft}^2$.
 The distribution is roughly bimodal and approximately symmetric. The median is around 250. The min is around 100 and the max is around 350.
 (b) $IQR = 292 - 134 = 118$
 No outliers

$$\begin{aligned} \text{Upper bound} &= Q_3 + 1.5 \times IQR \\ &= 292 + 1.5 \times 118 = 467 \\ \text{Lower bound} &= Q_1 - 1.5 \times IQR \\ &= 134 - 1.5 \times 118 = -3 \end{aligned}$$

Answer Key For Stats Data Models

Markus Ehrenmueller-Jensen



Answer Key For Stats Data Models:

Automatic Item Generation Mark J. Gierl, Thomas M. Haladyna, 2013 Automatic item generation AIG represents a relatively new and unique research area where specific cognitive and psychometric theories are applied to test construction practices for the purpose of producing test items using technology The purpose of this book is to bring researchers and practitioners up to date on the growing body of research on AIG by organizing in one volume what is currently known about this research area Part I begins with an overview of the concepts and topics necessary for understanding AIG by focusing on both its history and current applications Part II presents two theoretical frameworks and practical applications of these frameworks in the production of item generation Part III summarizes the psychological and substantive characteristics of generated items Part IV concludes with a discussion of the statistical models that can be used to estimate the item characteristics of generated items features one future application of AIG describes the current technologies used for AIG and also highlights the unresolved issues that must be addressed as AIG continues to mature as a research area Comprehensive The book provides a comprehensive analysis of both the theoretical concepts that define automatic item generation and the practical considerations required to implement these concepts Varied Applications Readers are provided with novel applications in diverse content areas e g science and reading comprehension that range across all educational levels elementary through university

Introduction to Machine Learning Aditya Tandon, Nagesh Salimath, Dr. Surbhi Bhatia, Kamalakanta Sethi, Bata Krishna Tripathy, 2019-11-28 Machine learning is one of the fastest growing areas of computer science with far reaching applications The aim of this textbook is to introduce machine learning and the algorithmic paradigms it offers in a principled way The book provides an extensive theoretical account of the fundamental ideas underlying machine learning and the mathematical derivations that transform these principles into practical algorithms Following a presentation of the basics of the field the book covers a wide array of central topics that have not been addressed by previous textbooks These include a discussion of the computational complexity of learning and the concepts of convexity and stability important algorithmic paradigms including stochastic gradient descent neural networks and structured output learning and emerging theoretical concepts such as the PAC Bayes approach and compression based bounds Designed for an advanced undergraduate or beginning graduate course the text makes the fundamentals and algorithms of machine learning accessible to students and nonexpert readers in statistics computer science mathematics and engineering

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Medical Informatics Europe '99 Peter Kokol, Blaž Zupan, Janez Stare, 1999 This volume seeks to reflect the state of the art on medical informatics It presents ideas that will guide the process of medical informatics Topics in the book include information systems in health care and medicine telemedicine and telematics security biomedical processing data mining and knowledge discovery training and education Internet intranet resources management intelligent medical systems health guidelines and protocols electronic

patient encounter card technology electronic data interchange terminology nursing informatics **Latent Variable Modeling with R** W. Holmes Finch, Brian F. French, 2015-06-26 This book demonstrates how to conduct latent variable modeling LVM in R by highlighting the features of each model their specialized uses examples sample code and output and an interpretation of the results Each chapter features a detailed example including the analysis of the data using R the relevant theory the assumptions underlying the model and other statistical details to help readers better understand the models and interpret the results Every R command necessary for conducting the analyses is described along with the resulting output which provides readers with a template to follow when they apply the methods to their own data The basic information pertinent to each model the newest developments in these areas and the relevant R code to use them are reviewed Each chapter also features an introduction summary and suggested readings A glossary of the text s boldfaced key terms and key R commands serve as helpful resources The book is accompanied by a website with exercises an answer key and the in text example data sets Latent Variable Modeling with R Provides some examples that use messy data providing a more realistic situation readers will encounter with their own data Reviews a wide range of LVMs including factor analysis structural equation modeling item response theory and mixture models and advanced topics such as fitting nonlinear structural equation models nonparametric item response theory models and mixture regression models Demonstrates how data simulation can help researchers better understand statistical methods and assist in selecting the necessary sample size prior to collecting data www.routledge.com/9780415832458 provides exercises that apply the models along with annotated R output answer keys and the data that corresponds to the in text examples so readers can replicate the results and check their work The book opens with basic instructions in how to use R to read data download functions and conduct basic analyses From there each chapter is dedicated to a different latent variable model including exploratory and confirmatory factor analysis CFA structural equation modeling SEM multiple groups CFA SEM least squares estimation growth curve models mixture models item response theory both dichotomous and polytomous items differential item functioning DIF and correspondance analysis The book concludes with a discussion of how data simulation can be used to better understand the workings of a statistical method and assist researchers in deciding on the necessary sample size prior to collecting data A mixture of independently developed R code along with available libraries for simulating latent models in R are provided so readers can use these simulations to analyze data using the methods introduced in the previous chapters Intended for use in graduate or advanced undergraduate courses in latent variable modeling factor analysis structural equation modeling item response theory measurement or multivariate statistics taught in psychology education human development and social and health sciences researchers in these fields also appreciate this book s practical approach The book provides sufficient conceptual background information to serve as a standalone text Familiarity with basic statistical concepts is assumed but basic knowledge of R is not NoSQL Data Models Olivier Pivert, 2018-08-14 The topic of NoSQL databases has recently

emerged to face the Big Data challenge namely the ever increasing volume of data to be handled It is now recognized that relational databases are not appropriate in this context implying that new database models and techniques are needed This book presents recent research works covering the following basic aspects semantic data management graph databases and big data management in cloud environments The chapters in this book report on research about the evolution of basic concepts such as data models query languages and new challenges regarding implementation issues **Mongodb**

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Publications United States. National Bureau of Standards,1979 Data Modeling with Microsoft Power BI Markus Ehrenmueller-Jensen,2024-06-10 Data modeling is the single most overlooked feature in Power BI Desktop yet it s what sets Power BI apart from other tools on the market This practical book serves as your fast forward button for data modeling with Power BI Analysis Services tabular and SQL databases It serves as a starting point for data modeling as well as a handy refresher Author Markus Ehrenmueller Jensen founder of Savory Data shows you the basic concepts of Power BI s semantic model with hands on examples in DAX Power Query and T SQL If you re looking to build a data warehouse layer chapters with T SQL examples will get you started You ll begin with simple steps and gradually solve more complex problems This book shows you how to Normalize and denormalize with DAX Power Query and T SQL Apply best practices for calculations flags and indicators time and date role playing dimensions and slowly changing dimensions Solve challenges such as binning budget localized models composite models and key value with DAX Power Query and T SQL Discover and tackle performance issues by applying solutions in DAX Power Query and T SQL Work with tables relations set operations normal forms dimensional modeling and ETL

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systematic comparison of building design and construction strategies the following section presents the results of the slr shown in figure 3 leading to the developed taxonomy and the comparative analysis of the 16 building design and construction strategies presented in table 1

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