

CHAPTER 4

DATA ANALYSIS

In this section researcher has thoroughly analyzed the primary data in order to scrutinize and transform it into useable information and to draw conclusion and suggest recommendations for sound decision making. A structured methodology was adopted to get required primary and secondary data from the beginning till completion of this stage. The important findings of the research were as follows:

Table 1: Age

Age in years	Frequency	Percent
less than 20	11	7.3
20-22	80	53.3
greater than 22	59	39.3
Total	150	100.0

The results revealed that out of 150 respondents, 11(7.3%) of the respondent's age was less than 20 years, 80(53.3%) of the respondent's age was 20-22 years, 59(39.3%) of the respondent's age was greater than 22.

Table 2: Gender

Category	Frequency	Percent
male	54	36.0
female	96	64.0
Total	150	100.0

Since the respondents were both male and female. So, the results showed that 54(36%) of the respondents were male and 96(64%) of the respondents were female.

Mathematical Statistics Data Analysis Chapter 4 Solutions

**Fozia Homa, Mukti Khetan, Mohd.
Arshad, Pradeep Mishra**



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Scientific Computing with MATLAB Dingyu Xue, Yangquan Chen, 2018-09-03 *Scientific Computing with MATLAB* Second Edition improves students ability to tackle mathematical problems It helps students understand the mathematical background and find reliable and accurate solutions to mathematical problems with the use of MATLAB avoiding the tedious and complex technical details of mathematics This edition retains the structure of its predecessor while expanding and updating the content of each chapter The book bridges the gap between problems and solutions through well grouped topics and clear MATLAB example scripts and reproducible MATLAB generated plots Students can effortlessly experiment with the scripts for a deep hands on exploration Each chapter also includes a set of problems to strengthen understanding of the material

Distribution Theory Fozia Homa, Mukti Khetan, Mohd. Arshad, Pradeep Mishra, 2023-09-08 This book provides a thorough understanding of distribution theory and data analysis using statistical software to solve problems related to basic statistics probability models and simulation It presents a detailed explanation of different distribution concepts used in statistics along with their application in real life situations Covering the analytical aspects using the latest software the volume discusses stochastic methods and other statistical methods It provides an overview of statistical data analysis by taking actual situations and implementing open source software R version 4.0 and Python 3.0 A detailed study of the statistical models is also provided with examples related to health agriculture insurance and other sectors

Introduction to High-Dimensional Statistics Christophe Giraud, 2021-08-25 Praise for the first edition This book succeeds singularly at providing a structured introduction to this active field of research it is arguably the most accessible overview yet published of the mathematical ideas and principles that one needs to master to enter the field of high dimensional statistics recommended to anyone interested in the main results of current research in high dimensional statistics as well as anyone interested in acquiring the core mathematical skills to enter this area of research *Journal of the American Statistical Association* *Introduction to High Dimensional Statistics* Second Edition preserves the philosophy of the first edition to be a concise guide for students and researchers discovering the area and interested in the mathematics involved The main concepts and ideas are presented in simple settings avoiding thereby unessential technicalities High dimensional statistics is a fast evolving field and much progress has been made on a large variety of topics providing new insights and methods Offering a succinct presentation of the mathematical foundations of high dimensional statistics this new edition Offers revised chapters from the previous edition with the inclusion of many additional materials on some important topics including compress sensing estimation with convex constraints the slope

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Lasso iterative hard thresholding aggregation support vector machines and learning theory Provides detailed exercises at the
end of every chapter with collaborative solutions on a wiki site Illustrates concepts with simple but clear practical examples

Instructor's Solutions Manual to Accompany Basic Mathematical Skills with Geometry, Fifth Edition ,2001

Linear Models Shayle R. Searle, Marvin H. J. Gruber, 2016-09-23 Provides an easy to understand guide to statistical linear models and its uses in data analysis This book defines a broad spectrum of statistical linear models that is useful in the analysis of data Considerable rewriting was done to make the book more reader friendly than the first edition *Linear Models Second Edition* is written in such a way as to be self contained for a person with a background in basic statistics calculus and linear algebra The text includes numerous applied illustrations numerical examples and exercises now augmented with computer outputs in SAS and R Also new to this edition is A greatly improved internal design and format A short introductory chapter to ease understanding of the order in which topics are taken up Discussion of additional topics including multiple comparisons and shrinkage estimators Enhanced discussions of generalized inverses the MINQUE Bayes and Maximum Likelihood estimators for estimating variance components Furthermore in this edition the second author adds many pedagogical elements throughout the book These include numbered examples end of example and end of proof symbols selected hints and solutions to exercises available on the book's website and references to big data in everyday life Featuring a thorough update *Linear Models Second Edition* includes A new internal format additional instructional pedagogy selected hints and solutions to exercises and several more real life applications Many examples using SAS and R with timely data sets Over 400 examples and exercises throughout the book to reinforce understanding *Linear Models Second Edition* is a textbook and a reference for upper level undergraduate and beginning graduate level courses on linear models statisticians engineers and scientists who use multiple regression or analysis of variance in their work SHAYLE R SEARLE PhD was Professor Emeritus of Biometry at Cornell University He was the author of the first edition of *Linear Models Linear Models for Unbalanced Data and Generalized Linear and Mixed Models* with Charles E McCulloch all from Wiley The first edition of *Linear Models* appears in the Wiley Classics Library MARVIN H J GRUBER PhD is Professor Emeritus at Rochester Institute of Technology School of Mathematical Sciences Dr Gruber has written a number of papers and has given numerous presentations at professional meetings during his tenure as a professor at RIT His fields of interest include regression estimators and the improvement of their efficiency using shrinkage estimators He has written and published two books on this topic Another of his books *Matrix Algebra for Linear Models* also published by Wiley provides good preparation for

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Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania ,2005 The Annals of Mathematical Statistics ,1953 This journal covering topics in mathematical statistics split into Annals of probability and Annals of statistics in 1973 **Bulletin - Institute of Mathematical Statistics** Institute of Mathematical Statistics,1997

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