#### Chapter - 9

#### STATISTICS

Statistics deals with the collection, classification, presentation, analysis and interpretation of numeric data (quantitative data).

The simplest form of numerical data is a series of values of a certain variable. Such values can be given as individual numbers. Therefore, such data is called an individual series of raw data.

In such a series, some numbers could occur repeatedly. In such cases, it would be convenient to group these numbers. This grouping can be done in two ways. The numbers can be arranged in ascending (or descending) order and the number of times each number occurs (its frequency) can be specified. This results in a discrete series. Alternately, we may choose to ignore the actual number and record only the fact that it lies between certain limits. Such grouping results in a continuous series. The values between the limits are called intervals. For example, consider the marks obtained by the students of a class. This data has been represented in each of the ways below.

Individual series 60, 55, 70, 60, 70 65, 75, 65, 70, 55 58, 74, 67, 68, 73 Discrete series

F	Frequency	2	3.	2	2	1	. 1	3	. 1	1	- 1
Г	Number	55	58	60	65	67	68	70	73	74	75

Continuous series We denote the marks obtained by the students as

Intervals	Frequency 2		
× ≤ 55			
55< × ≤ 60	3		
$60 < x \le 65$	2		
65 < × ≤ 70	5		
70 < x ≤ 75	3		

Collection of data, especially on a large scale, is typically an expensive process and requires big teams of field workers. Therefore it needs careful planning. The primary consideration is the purpose for which the collected data will be used

After data has been collected, classified and presented, it has to be analysed and interpreted. To analyse data, the important features of the data have to identified and relations between quantities (variables) have to be studied. Two important features of any data are the central tendency and dispersion. Instead of thinking of all the numbers in a set, we would like to think of a typical number, the 'central' value. Two sets of numbers, which may have the same 'central' value, may differ in terms of the variation of all the numbers in the set, i.e. the extent to which the numbers' disperse' from this central value.

Various quantitative measures can be defined to measure these two properties, ie central tendency and dispersion. In this chapter, we shall limit ourselves to an individual series and study such properties.

#### I. Measures of Central Tendencies

The measures we discuss here are

- (A) Arithmetic Mean,
- (B) Geometric Mean,
- (C) Harmonic Mean.
- (D) Median and
- (5) Mode.

#### 1. Arithmetic Mean (A.M.) (x)

Given x<sub>1</sub>, x<sub>2</sub>, ..... x<sub>n</sub> (n individual items)

$$A.M. = \overline{x} = \frac{x_1 + x_2 + \dots + x_n}{n}$$

#### Examples

- (ii) The arithmetic mean of (3, 4, 5, 6, 7, 8, 9, 10) is 3+4+5+6+7+8+9+10 52 52 52

#### Motors

- (a) The algebraic sum of deviations about the mean is 0 or Σ(x − x̄) = 0.
- (b) The arithmetic mean of two numbers a, b is a + b -
- (c) If b = AM of (a, c), then a, b and c are in arithmetic progression.

#### Geometric Mean (G.M.)

Given x<sub>1</sub>, x<sub>2</sub>, ....., x<sub>n</sub> (n individual items all being positive)

$$G.M. = (\mathbf{x}_1 \cdot \mathbf{x}_2 \cdot \ldots, \mathbf{x}_n)^{1/n}$$

or G.M. = n<sup>th</sup> root of the product of the numbers.

#### Examples

- The geometric mean of (10, 30, 90) is
   = (10 × 30 × 90)<sup>13</sup>
   = (10 × 30 × 3 × 30)<sup>13</sup>
   = (30 × 30 × 30)<sup>13</sup> = 30
- (ii) The geometric mean of (24, 20, 15, 45, 75) is = (8 × 3 × 5 × 4 × 3 × 5 × 3² × 5 × 3 × 5²)¹²² = (2° × 3² × 5²)¹²² = 2 × 3 × 5 = 30

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# **Mathematics Course 3 Chapter 9 Statistics And Matrices**

SUNDARAPANDIAN, V.

#### **Mathematics Course 3 Chapter 9 Statistics And Matrices:**

Matrix Mathematics Dennis S. Bernstein, 2009-07-06 When first published in 2005 Matrix Mathematics quickly became the essential reference book for users of matrices in all branches of engineering science and applied mathematics In this fully updated and expanded edition the author brings together the latest results on matrix theory to make this the most complete current and easy to use book on matrices Each chapter describes relevant background theory followed by specialized results Hundreds of identities inequalities and matrix facts are stated clearly and rigorously with cross references citations to the literature and illuminating remarks Beginning with preliminaries on sets functions and relations Matrix Mathematics covers all of the major topics in matrix theory including matrix transformations polynomial matrices matrix decompositions generalized inverses Kronecker and Schur algebra positive semidefinite matrices vector and matrix norms the matrix exponential and stability theory and linear systems and control theory Also included are a detailed list of symbols a summary of notation and conventions an extensive bibliography and author index with page references and an exhaustive subject index This significantly expanded edition of Matrix Mathematics features a wealth of new material on graphs scalar identities and inequalities alternative partial orderings matrix pencils finite groups zeros of multivariable transfer functions roots of polynomials convex functions and matrix norms Covers hundreds of important and useful results on matrix theory many never before available in any book Provides a list of symbols and a summary of conventions for easy use Includes an extensive collection of scalar identities and inequalities Features a detailed bibliography and author index with page references Includes an exhaustive subject index with cross referencing **Research in Education** .1971 Resources in Unified Modern Mathematics, Course 1-3 Secondary School Mathematics Curriculum Improvement Education .1992 Mathematics Michael Sullivan, Abe Mizrahi, 2004-06-01 Looking for a textbook to help you motivate your Study, 1968 students Sullivan Mizrahi s Mathematics An Applied Approach 8 e continues its rich tradition of engaging students and demonstrating how mathematics applies to various fields of study. The text is packed with real data and real life applications to business economics social and life sciences The new Eighth Edition also features a new full color design and improved goal oriented pedagogy to further help student understanding Foundational Python for Data Science Kennedy Behrman, 2021-10-12 Learn all the foundational Python you ll need to solve real data science problems Data science and machine learning two of the world's hottest fields are attracting talent from a wide variety of technical business and liberal arts disciplines Python the world s 1 programming language is also the most popular language for data science and machine learning This is the first guide specifically designed to help millions of people with widely diverse backgrounds learn Python so they can use it for data science and machine learning Leading data science instructor and practitioner Kennedy Behrman first walks through the process of learning to code for the first time with Python and Jupyter notebook then introduces key libraries every Python data science programmer needs to master Once you ve learned these foundations Behrman introduces

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Numerical Linear Algebra SUNDARAPANDIAN, V., 2008-04-23 This well organized text provides a clear analysis of the fundamental concepts of numerical linear algebra It presents various numerical methods for the basic topics of linear algebra with a detailed discussion on theory algorithms and MATLAB implementation The book provides a review of matrix algebra and its important results in the opening chapter and examines these results in the subsequent chapters With clear explanations the book analyzes different kinds of numerical algorithms for solving linear algebra such as the elimination and iterative methods for linear systems the condition number of a matrix singular value decomposition SVD of a matrix and linear least squares problem In addition it describes the Householder and Givens matrices and their applications and the basic numerical methods for solving the matrix eigenvalue problem Finally the text reviews the numerical methods for systems and control Key Features Includes numerous worked out examples to help students grasp the concepts easily Provides chapter end exercises to enable students to check their comprehension of the topics discussed Gives answers to exercises with hints at the end of the book Uses MATLAB software for problem solving Primarily designed as a textbook for postgraduate students of Mathematics this book would also serve as a handbook on matrix computations for scientists and engineers Statistics of Directional Data K. V. Mardia, 2014-07-03 Probability and Mathematical Statistics A Series of Monographs and Textbooks Statistics of Directional Data aims to provide a systematic account of statistical theory and methodology for observations which are directions The publication first elaborates on angular data and frequency distributions descriptive measures and basic concepts and theoretical models Discussions focus on moments and measures of location and dispersion distribution function corrections for grouping calculation of the mean direction and the circular variance interrelations between different units of angular measurement and diagrammatical representation The book then examines fundamental theorems and distribution theory point estimation and tests for samples from von Mises populations The text takes a look at non parametric tests distributions on spheres and inference problems on the sphere Topics include tests for axial data point estimation distribution theory moments and limiting distributions and tests of goodness of fit and tests of uniformity The publication is a dependable reference for researchers interested in probability and mathematical statistics **3D Math Primer for Graphics and Game Development** Fletcher Dunn, Ian Parberry, 2002 Presents an introduction to the fundamental concepts of 3D math explaining vectors coordinate spaces matrices Euler angles geometric

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Linear Algebra, Data Science, and Machine Learning Jeff Calder, Peter J. Olver, 2025-08-25 This text provides a mathematically rigorous introduction to modern methods of machine learning and data analysis at the advanced undergraduate beginning graduate level The book is self contained and requires minimal mathematical prerequisites There is a strong focus on learning how and why algorithms work as well as developing facility with their practical applications Apart from basic calculus the underlying mathematics linear algebra optimization elementary probability graph theory and statistics is developed from scratch in a form best suited to the overall goals In particular the wide ranging linear algebra components are unique in their ordering and choice of topics emphasizing those parts of the theory and techniques that are used in contemporary machine learning and data analysis The book will provide a firm foundation to the reader whose goal is to work on applications of machine learning and or research into the further development of this highly active field of contemporary applied mathematics To introduce the reader to a broad range of machine learning algorithms and how they are used in real world applications the programming language Python is employed and offers a platform for many of the computational exercises Python notebooks complementing various topics in the book are available on a companion GitHub site specified in the Preface and can be easily accessed by scanning the QR codes or clicking on the links provided within the text Exercises appear at the end of each section including basic ones designed to test comprehension and computational skills while others range over proofs not supplied in the text practical computations additional theoretical results and further developments in the subject The Students Solutions Manual may be accessed from GitHub Instructors may apply for access to the Instructors Solutions Manual from the link supplied on the text's Springer website The book can be used in a junior or senior level course for students majoring in mathematics with a focus on applications as well as students from other disciplines who desire to learn the tools of modern applied linear algebra and optimization It may also be used as an introduction to fundamental techniques in data science and machine learning for advanced undergraduate and graduate students or researchers from other areas including statistics computer science engineering biology economics and finance and so on A First Course in Systems Biology Eberhard Voit, 2017-09-05 A First Course in Systems Biology is an

introduction for advanced undergraduate and graduate students to the growing field of systems biology Its main focus is the development of computational models and their applications to diverse biological systems The book begins with the fundamentals of modeling then reviews features of the molecular inventories that bring biological systems to life and discusses case studies that represent some of the frontiers in systems biology and synthetic biology In this way it provides the reader with a comprehensive background and access to methods for executing standard systems biology tasks understanding the modern literature and launching into specialized courses or projects that address biological questions using theoretical and computational means New topics in this edition include default modules for model design limit cycles and chaos parameter estimation in Excel model representations of gene regulation through transcription factors derivation of the Michaelis Menten rate law from the original conceptual model different types of inhibition hysteresis a model of differentiation system adaptation to persistent signals nonlinear nullclines PBPK models and elementary modes The format is a combination of instructional text and references to primary literature complemented by sets of small scale exercises that enable hands on experience and large scale often open ended questions for further reflection Symbolic Mathematics for Chemists Fred Senese, 2018-11-05 An essential guide to using Maxima a popular open source symbolic mathematics engine to solve problems build models analyze data and explore fundamental concepts Symbolic Mathematics for Chemists offers students of chemistry a guide to Maxima a popular open source symbolic mathematics engine that can be used to solve problems build models analyze data and explore fundamental chemistry concepts The author a noted expert in the field focuses on the analysis of experimental data obtained in a laboratory setting and the fitting of data and modeling experiments The text contains a wide variety of illustrative examples and applications in physical chemistry quantitative analysis and instrumental techniques Designed as a practical resource the book is organized around a series of worksheets that are provided in a companion website Each worksheet has clearly defined goals and learning objectives and a detailed abstract that provides motivation and context for the material This important resource Offers an text that shows how to use popular symbolic mathematics engines to solve problems Includes a series of worksheet that are prepared in Maxima Contains step by step instructions written in clear terms and includes illustrative examples to enhance critical thinking creative problem solving and the ability to connect concepts in chemistry Offers hints and case studies that help to master the basics while proficient users are offered more advanced avenues for exploration Written for advanced undergraduate and graduate students in chemistry and instructors looking to enhance their lecture or lab course with symbolic mathematics materials Symbolic Mathematics for Chemists A Guide for Maxima Users is an essential resource for solving and exploring quantitative problems in chemistry Scalar, Vector, and Matrix Mathematics Dennis S. Bernstein, 2018-02-27 The essential reference book on matrices now fully updated and expanded with new material on scalar and vector mathematics Since its initial publication this book has become the essential reference for users of matrices in all branches of engineering science and

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and matrices as the basis for the mathematics with the concept of orthogonality taking center stage Important matrixfactorizations as well as the concepts of eigenvalues and eigenvectors emerge organically from the interplay between matrix computations and geometry The R files are extra and freely available They include basic code and templates for many of the in text examples most of the projects and solutions to selected exercises As much as possible data sets and matrix entries are included in the files thus reducing the amount of manual data entry required Stochastic Processes Pierre Del Moral, Spiridon Penev, 2017-02-24 Unlike traditional books presenting stochastic processes in an academic way this book includes concrete applications that students will find interesting such as gambling finance physics signal processing statistics fractals and biology Written with an important illustrated guide in the beginning it contains many illustrations photos and pictures along with several website links Computational tools such as simulation and Monte Carlo methods are included as well as complete toolboxes for both traditional and new computational techniques <u>Linear Algebra for Data Science</u>, Machine Learning, and Signal Processing Jeffrey A. Fessler, Raj Rao Nadakuditi, 2024-05-16 Master matrix methods via engaging data driven applications aided by classroom tested guizzes homework exercises and online Julia demos Finite Mathematics Carla C. Morris, Robert M. Stark, 2015-08-24 Features step by step examples based on actual data and connects fundamental mathematical modeling skills and decision making concepts to everyday applicability Featuring key linear programming matrix and probability concepts Finite Mathematics Models and Applications emphasizes cross disciplinary applications that relate mathematics to everyday life The book provides a unique combination of practical mathematical applications to illustrate the wide use of mathematics in fields ranging from business economics finance management operations research and the life and social sciences In order to emphasize the main concepts of each chapter Finite Mathematics Models and Applications features plentiful pedagogical elements throughout such as special exercises end notes hints select solutions biographies of key mathematicians boxed key principles a glossary of important terms and topics and an overview of use of technology The book encourages the modeling of linear programs and their solutions and uses common computer software programs such as LINDO In addition to extensive chapters on probability and statistics principles and applications of matrices are included as well as topics for enrichment such as the Monte Carlo method game theory kinship matrices and dynamic programming Supplemented with online instructional support materials the book features coverage including Algebra Skills Mathematics of Finance Matrix Algebra Geometric Solutions Simplex Methods Application Models Set and Probability Relationships Random Variables and Probability Distributions Markov Chains Mathematical Statistics Enrichment in Finite Mathematics An ideal textbook Finite Mathematics Models and Applications is intended for students in fields from entrepreneurial and economic to environmental and social science including many in the arts and humanities Mathematics of Big Data Jeremy Kepner, Hayden Jananthan, 2018-07-17 The first book to present the common mathematical foundations of big data analysis across a range of applications and technologies Today the volume

velocity and variety of data are increasing rapidly across a range of fields including Internet search healthcare finance social media wireless devices and cybersecurity Indeed these data are growing at a rate beyond our capacity to analyze them The tools including spreadsheets databases matrices and graphs developed to address this challenge all reflect the need to store and operate on data as whole sets rather than as individual elements This book presents the common mathematical foundations of these data sets that apply across many applications and technologies Associative arrays unify and simplify data allowing readers to look past the differences among the various tools and leverage their mathematical similarities in order to solve the hardest big data challenges The book first introduces the concept of the associative array in practical terms presents the associative array manipulation system D4M Dynamic Distributed Dimensional Data Model and describes the application of associative arrays to graph analysis and machine learning It provides a mathematically rigorous definition of associative arrays and describes the properties of associative arrays that arise from this definition Finally the book shows how concepts of linearity can be extended to encompass associative arrays Mathematics of Big Data can be used as a textbook or reference by engineers scientists mathematicians computer scientists and software engineers who analyze big data

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