CHAPTER 6
6. RANDOM VARIABLES AND PROBABILITY DISTRIBUTIONS
6.1 Definitions of random variable and probability distributions

Definition: *A random variable* is a numerical description of the outcomes of the experiment or a numerical valued function defined on sample space, usually denoted by capital letters.

Example: If X is a random variable, then it is a function from the elements of the sample space to the set of real numbers. i.e.

$$X \text{ is a function } X: S \rightarrow R$$

➔A random variable takes a possible outcome and assigns a number to it.

Example: Flip a coin three times, let X be the number of heads in three tosses.

$$\Rightarrow S = \{(HHH),(HHT),(HTH),(HTT),(THH),(THT),(TTH),(TTT)\}$$
$$\Rightarrow X(HHH)=3, \quad X(HHT)=X(HTH)=X(THH)=2,$$
$$X(HTT)=X(THT)=X(TTH)=1$$
$$X(TTT)=0$$

$$X = \{0, 1, 2, 3\}$$

➔X assumes a specific number of values with some probabilities.

Random variables are of two types:

1. *Discrete random variable*: are variables which can assume only a specific number of values. They have values that can be counted

Examples:

- Toss coin n times and count the number of heads.
- Number of children in a family.
- Number of car accidents per week.
- Number of defective items in a given company.
- Number of bacteria per two cubic centimeter of water.

Chapter 6 Random Variables Continuous Case

David Ray Anderson,Dennis J. Sweeney,Thomas Arthur Williams

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   Fundamentals of Probability Saeed Ghahramani,2018-09-05 The 4th edition of Ghahramani s book is replete with intriguing historical notes insightful comments and well selected examples exercises that together capture much of the essence of probability Along with its Companion Website the book is suitable as a primary resource for a first course in probability Moreover it has sufficient material for a sequel course introducing stochastic processes and stochastic simulation Nawaf Bou Rabee Associate Professor of Mathematics Rutgers University Camden USA This book is an excellent primer on probability with an incisive exposition to stochastic processes included as well The flow of the text aids its readability and the book is indeed a treasure trove of set and solved problems Every sub topic within a chapter is supplemented by a comprehensive list of exercises accompanied frequently by self quizzes while each chapter ends with a useful summary and another rich collection of review problems Dalia Chakrabarty Department of Mathematical Sciences Loughborough University UK This textbook provides a thorough and rigorous treatment of fundamental probability including both discrete and continuous cases The book s ample collection of exercises gives instructors and students a great deal of practice and tools to sharpen their understanding Because the definitions theorems and examples are clearly labeled and easy to find this book is not only a great course accompaniment but an invaluable reference Joshua Stangle Assistant Professor of Mathematics University of Wisconsin Superior USA This one or two term calculus based basic probability text is written for majors in mathematics physical sciences engineering statistics actuarial science business and finance operations research and computer science It presents probability in a natural way through interesting and instructive examples and exercises that motivate the theory definitions theorems and methodology This book is mathematically rigorous and at the same time closely matches the historical development of probability Whenever appropriate historical remarks are included and the 2096 examples and exercises have been carefully designed to arouse curiosity and hence encourage students to delve into the theory with enthusiasm New to the Fourth Edition 538 new examples and exercises have been added almost all of which are of applied nature in realistic contexts Self quizzes at the end of each section and self tests at the end of each chapter allow students to check their comprehension of the material An all new Companion Website includes additional examples complementary topics not covered in the previous editions and applications for more in depth studies as well as a test bank and figure slides It also includes complete solutions to all self test and self quiz problems Saeed Ghahramani is Professor of Mathematics and Dean of the College of Arts and Sciences at Western New England University He received his Ph D from the University of California at Berkeley in Mathematics and is a recipient of teaching awards from Johns Hopkins University and Towson University His research focuses on applied probability stochastic processes and queuing theory   Probability and Information David Applebaum,1996-07-13 This elementary introduction to probability theory and information theory is suitable as a textbook for beginning students in mathematics statistics or computer science who have some knowledge of

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Business Analysis: Quantitative Methods Using Spreadsheets Frank S T Hsiao,2011-04-18 This textbook introduces the computer skills necessary for modern day undergraduate and graduate students to succeed in economic and business analysis This self contained book features innovative applications of Excel commands equations formulas and graphics In addition the exposition of the basic concepts models and interpretations are presented intuitively and graphically without compromising the rigor of analysis The book contains numerous engaging and innovative examples and problem sets Practical applications are also highlighted including the introduction and discussion of key concepts They show how Excel can be used to solve theoretical and practical problems This book will be of interest to students instructors and researchers who wish to find out more about the applications of Excel in economics and business The Instructor s manual is available upon request for all instructors who adopt this book as a course text Please send your request to sales wspc com

Mathematical Models of Information and Stochastic Systems Philipp Kornreich,2008-05-13 This text shows that the amount of knowledge about a system plays an important role in the mathematical models used to foretell the future of the system It explains how to derive probability distributions to predict the behavior of systems based on what is known about the system The author develops probability theory from a few basic concepts explores the relationship between probability and time and describes the bit error rate with examples a detail not found in many other probability books Drawing on many disciplines that include physics engineering economics and biology the text contains numerous case studies examples tables and problems A solutions manual is available for qualifying instructors **Quantitative Methods** Paolo Brandimarte,2012-01-03 An accessible introduction to the essential quantitative methods for making valuable business decisions Quantitative methods research techniques used to analyze quantitative data enable professionals to organize and understand numbers and in turn to make good decisions Quantitative Methods An Introduction for Business Management presents the application of quantitative mathematical modeling to decision making in a business management context and emphasizes not only the role of data in drawing conclusions but also the pitfalls of undiscerning reliance of software packages that implement standard statistical procedures With hands on applications and explanations that are accessible to readers at various levels the book successfully outlines the necessary tools to make smart and successful business decisions Progressing from beginner to more advanced material at an easy to follow pace the author utilizes motivating examples throughout to aid readers interested in decision making and also provides critical remarks intuitive traps and counterexamples when appropriate The book begins with a discussion of motivations and foundations related to the topic with introductory presentations of concepts from calculus to linear algebra Next the core ideas of quantitative methods are presented in chapters that explore introductory topics in probability descriptive and inferential statistics linear regression and a discussion of time series that includes both classical topics and more challenging models The author also discusses linear programming models and decision making under risk as well as less standard topics in the field such as game theory

and Bayesian statistics Finally the book concludes with a focus on selected tools from multivariate statistics including advanced regression models and data reduction methods such as principal component analysis factor analysis and cluster analysis The book promotes the importance of an analytical approach particularly when dealing with a complex system where multiple individuals are involved and have conflicting incentives A related website features Microsoft Excel workbooks and MATLAB scripts to illustrate concepts as well as additional exercises with solutions Quantitative Methods is an excellent book for courses on the topic at the graduate level The book also serves as an authoritative reference and self study guide for financial and business professionals as well as readers looking to reinforce their analytical skills   Probability and Random Processes for Engineers and Scientists University of Michigan. Engineering Summer Conferences,1970   **Statistical Tools For Managers (using Ms Excel)** Apte,2009   Multiple Criteria Decision Analysis for Industrial Engineering Gerald William Evans,2016-12-01 This textbook presents methodologies and applications associated with multiple criteria decision analysis MCDA especially for those students with an interest in industrial engineering With respect to methodology the book covers 1 problem structuring methods 2 methods for ranking multi dimensional deterministic outcomes including multiattribute value theory the analytic hierarchy process the Technique for Order Preference by Similarity to Ideal Solution TOPSIS and outranking techniques 3 goal programming 4 methods for describing preference structures over single and multi dimensional probabilistic outcomes e g utility functions 5 decision trees and influence diagrams 6 methods for determining input probability distributions for decision trees influence diagrams and general simulation models and 7 the use of simulation modeling for decision analysis This textbook also offers Easy to follow descriptions of how to apply a wide variety of MCDA techniques Specific examples involving multiple objectives and or uncertainty risk of interest to industrial engineers A section on outranking techniques this group of techniques which is popular in Europe is very rarely mentioned as a methodology for MCDA in the United States A chapter on simulation as a useful tool for MCDA including ranking selection procedures Such material is rarely covered in courses in decision analysis Both material review questions and problems at the end of each chapter Solutions to the exercises are found in the Solutions Manual which will be provided along with PowerPoint slides for each chapter The methodologies are demonstrated through the use of applications of interest to industrial engineers including those involving product mix optimization supplier selection distribution center location and transportation planning resource allocation and scheduling of a medical clinic staffing of a call center quality control project management production and inventory control and so on Specifically industrial engineering problems are structured as classical problems in multiple criteria decision analysis and the relevant methodologies are demonstrated   Statistics Richard A. Johnson,Gouri K. Bhattacharyya,1996-02-14 Textbook   **Statistics** Alan H. Kvanli,1988   **Statistics for Business and Economics** David Ray Anderson,Dennis J. Sweeney,Thomas Arthur Williams,1993   Statistics Joseph F. Healey,1999 Designed to provide students with a solid foundation in statistical analysis and to

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web the acclaimed videos of artist and musician christian marclay feature in an australian exclusive survey exhibition replay marclay at the australian centre for the moving image acmi until february 3 2008

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