

Chapter 3: Discrete Random Variables

3.1 The Notion of a Random Variable

3.1

Sample Space:

Roll	0	1	2
$\frac{1}{4}$ 0	(0,0)	(0,1)	(0,2)
$\frac{1}{2}$ 1	(1,0)	(1,1)	(1,2)
$\frac{1}{4}$ 2	(2,0)	(2,1)	(2,2)

$\frac{1}{4} \quad \frac{1}{2} \quad \frac{1}{4}$

Probabilities:

	0	1	2
0	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{16}$
1	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{8}$
2	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{16}$

Mapping $\omega \rightarrow X$

	0	1	2
0	0	1	2
1	1	1	2
2	2	2	2

$P[X=0] = P[(0,0)] = \frac{1}{16}$
 $P[X=1] = P[\{(0,1), (1,0), (1,1)\}] = \frac{1}{2}$
 $P[X=2] = 3 \times \frac{1}{16} + 2 \times \frac{1}{8} = \frac{7}{16}$

Leon Garcia 3rd Chapter 4

William A. Shay



Leon Garcia 3rd Chapter 4:

Probability, Statistics, and Random Processes for Electrical Engineering Alberto Leon-Garcia, 2008 While helping students to develop their problem solving skills the author motivates students with practical applications from various areas of ECE that demonstrate the relevance of probability theory to engineering practice **A Tutorial on Queuing and**

Trunking with Applications to Communications William Tranter, Allen B. MacKenzie, 2022-05-31 The motivation for developing this synthesis lecture was to provide a tutorial on queuing and trunking with extensions to networks of queues suitable for supplementing courses in communications stochastic processes and networking An essential component of this lecture is MATLAB based demonstrations and exercises which can be easily modified to enable the student to observe and evaluate the impact of changing parameters arrival and departure statistics queuing disciplines the number of servers and other important aspects of the underlying system model Much of the work in this lecture is based on Poisson statistics since Poisson models are useful due to the fact that Poisson models are analytically tractable and provide a useful approximation for many applications We recognize that the validity of Poisson statistics is questionable for a number of networking applications and therefore we briefly discuss self similar models and the Hurst parameter long term dependent models the Pareto distribution and other related topics Appropriate references are given for continued study on these topics The initial chapters of this book consider individual queues in isolation The systems studied consist of an arrival process a single queue with a particular queuing discipline and one or more servers While this allows us to study the basic concepts of queuing and trunking modern data networks consist of many queues that interact in complex ways While many of these interactions defy analysis the final chapter introduces a model of a network of queues in which after being served in one queue customers may join another queue The key result for this model is known as Jackson's Theorem Finally we state the BCMP Theorem which can be viewed as a further extension of Jackson's Theorem and present Kleinrock's formula which can be viewed as the network version of Little's Theorem Table of Contents Introduction Poisson Erlang and Pareto Distributions A Brief Introduction to Queueing Theory Blocking and Delay Networks of Queues **Digital Communication Systems**

Engineering with Software-defined Radio Di Pu, Alexander M. Wyglinski, 2013 For a senior level undergraduate course on digital communications this unique resource provides you with a practical approach to quickly learning the software defined radio concepts you need to know for your work in the field **Transporting Compressed Digital Video** Xuemin

Chen, 2005-11-28 The purpose of Transporting Compressed Digital Video is to introduce fundamental principles and important technologies used in design and analysis of video transport systems for many video applications in digital networks In the past two decades progress in digital video processing transmission and storage technologies such as video compression digital modulation and digital storage disk has proceeded at an astounding pace Digital video compression is a field in which fundamental technologies were motivated and driven by practical applications so that they often lead to many

useful advances Especially the digital video compression standards developed by the Moving Pictures Expert Group MPEG of the International Organization for Standardization ISO and the International Electrotechnical Commission IEC have enabled many successful digital video applications These applications range from digital video disk DVD and multimedia CDs on a desktop computer interactive digital cable television to digital satellite networks MPEG has become the most recognized standard for digital video compression MPEG video is now an integral part of most digital video transmission and storage systems Nowadays video compression technologies are being used in almost all modern digital video systems and networks Not only is video compression equipment being implemented to increase the bandwidth efficiency of communication systems but video compression also provides innovative solutions to many related vid networking problems The subject of Transporting Compressed Digital Video includes several important topics in particular video buffering packet scheduling multiplexing and synchronization Tactical Wireless Communications and Networks George F. Elmasry, 2012-10-10

Providing a complete description of modern tactical military communications and networks technology this book systematically compares tactical military communications techniques with their commercial equivalents pointing out similarities and differences In particular it examines each layer of the protocol stack and shows how specific tactical and security requirements result in changes from the commercial approach The author systematically leads readers through this complex topic firstly providing background on the architectural approach upon which the analysis will be based and then going into detail on tactical wireless communications and networking technologies and techniques Structured progressively for readers needing an overall view for those looking at the communications aspects lower layers of the protocol stack and for users interested in the networking aspects higher layers of the protocol stack Presents approaches to alleviate the challenges faced by the engineers in the field today Furnished throughout with illustrations and case studies to clarify the notional and architectural approaches Includes a list of problems for each chapter to emphasize the important aspects of the topics covered Covers the current state of tactical networking as well as the future long term evolution of tactical wireless communications and networking in the next 50 years Written at an advanced level with scope as a reference tool for engineers and scientists as well as a graduate text for advanced courses **Introduction to Communication Systems**

Ferrel G. Stremler, 1990 This text presents a thorough introduction to communication systems with an emphasis on engineering aspects of signal waveform design and modulation Its presentation skillfully connects development of mathematical principles to examples from current operating communication systems Most importantly explanations and exercises are carefully motivated with practical applications Features Explanations of practical communication systems presented in the context of theory Over 300 excellent illustrations help students visualize difficult concepts and demonstrate practical applications Over 120 worked out examples promote mastery of new concepts plus over 130 drill problems with answers extend these principles A wide variety of problems all new to this edition including realistic applications computer

based problems and design problems Coverage of current topics of interest such as fiber optics spread spectrum systems and Integrated Digital Services Networks Image Processing Algorithms for Tracking and Characterizing the Motion of Helicobacter Pylori Geoffrey S. Ryder,2005 **Roman Military Brick Stamps** Renate Kurzmann,2006 Oxbow says This volume examines different methodologies and approaches to studying Roman military brick stamps focusing especially on legionary stamps **IoT for Smart Grids** Kostas Siozios,Dimitrios Anagnostos,Dimitrios Soudris,Elias Kosmatopoulos,2018-11-24 This book explains the fundamentals of control theory for Internet of Things IoT systems and smart grids and its applications It discusses the challenges imposed by large scale systems and describes the current and future trends and challenges in decision making for IoT in detail showing the ongoing industrial and academic research in the field of smart grid domain applications It presents step by step design guidelines for the modeling design customisation and calibration of IoT systems applied to smart grids in which the challenges increase with each system s increasing complexity It also provides solutions and detailed examples to demonstrate how to use the techniques to overcome these challenges as well as other problems related to decision making for successful implementation Further it anaylses the features of decision making such as low complexity and fault tolerance and uses open source and publicly available software tools to show readers how they can design implement and customise their own system control instantiations This book is a valuable resource for power engineers and researchers as it addresses the analysis and design of flexible decision making mechanisms for smart grids It is also of interest to students on courses related to control of large scale systems since it covers the use of state of the art technology with examples and solutions in every chapter And last but not least it offers practical advice for professionals working with smart grids **Computer-based Exercises for Signal Processing Using MATLAB 5** James H. McClellan,1998 For senior or introductory graduate level courses in digital signal processing Developed by a group of six eminent scholars and teachers this book offers a rich collection of exercises and projects which guide students in the use of MATLAB v5 to explore major topical areas in digital signal processing **Computer-based Exercises for Signal Processing Using MATLAB** C. S. Burrus,1994 **Understanding Data Communications and Networks** William A. Shay,2004 Thoroughly updated for currency this book offers a clear presentation of data communications and network fundamentals Featuring a wide array of applications the book fully explains concepts and supports them with case studies or descriptions of specific software and other products Students learn the protocols of analog and digital signals data compression data integrity data security local area networks asynchronous transfer mode ATM and much more The third edition includes important information on the latest developments of the Internet Digital Transmission Systems and Networks: Principles Michael J. Miller,Syed V. Ahamed,1987 Appletons' Guide to Mexico Alfred Ronald Conkling,1883 Army and Navy Register ,1916 *Wireless Internet & Mobile Business* Harvey M. Deitel,2002 This text is designed for wireless internet web courses and advanced internet web programming courses

focusing on the wireless internet found in computer science CIS MIS business and engineering departments While the rapid expansion of wireless technologies such as cell phones and palm pilots offers many new opportunities for businesses and programmers it also presents numerous challenges related to issues such as security and standardization *Army-Navy-Air Force Register and Defense Times* ,1916 **The Return of the Native** Rebecca Earle,2007-12-28 The Return of the Native offers a look at the role of preconquest peoples such as the Aztecs and the Incas in the imagination of Spanish American elites in the first century after independence *Supreme Court Reports, Annotated* Philippines. Supreme Court,1990

Digital Moving Pictures - Coding and Transmission on ATM Networks J.-P. Leduc,1994-10-11 Image communication technologies have advanced rapidly in recent years and the book series Advances in Image Communication is dedicated to documenting these developments Third in the series this publication contributes as effectively as its forerunners to the multidisciplinary overview afforded by the series as a whole At the same time it stands alone as a comprehensive synopsis of its own particular area of interest The book specifically explores two complementary topics namely the coding algorithms made to compress the data rate of digital moving picture sequences video telephony television TV and high definition television HDTV and the transmission on Asynchronous Transfer Mode ATM networks packet switching transmission media It provides an in depth view of the current state of the art and endeavors to stimulate increasing research efforts for the future

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