Name _____ Date _____ Class _____

Section 9-2 Regular Markov Chains

Goal: To solve problems using Markov chains

Definition: Stationary Matrix for a Markov Chain

The state matrix $S = [s_1 \quad s_2 \quad \cdots \quad s_n]$ is a stationary matrix for a Markov chain with transition matrix P if $SP = S$, where $s_i \geq 0$, $i = 1, \ldots, n$, and $s_1 + s_2 + \cdots + s_n = 1$

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1. A Markov process has two states, A and B. The probability of going from state A to state B in one trial is 0.35, and the probability of going from state B to state A in one trial is 0.25. Find the stationary matrix that describes the long-run behavior of this process.

Feliks Ruvimovich Gantmakher

Chapter 9 Markov Chain Regular Markov Chains Section 9 2:

Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences Raymond A. Barnett,Michael R. Ziegler,1996 This text covers mathematics of finance linear algebra linear programming probability and descriptive statistics with an emphasis on cross discipline principles and practices Designed to be student friendly and accessible it develops a thorough functional understanding of mathematical concepts in preparation for their application in other areas Coverage concentrates on developing concepts and ideas followed immediately by developing computational skills and problem solving

Finite Mathematics Jeffrey Xavier Watt,2003 **Finite Mathematics with Calculus** David E. Zitarelli,1989

College Mathematics for Business, Economics, Life Sciences and Social Sciences Raymond A. Barnett,Michael R. Ziegler,Karl Byleen,2008 Designed to be accessible this book develops a thorough functional understanding of mathematical concepts in preparation for its application in other areas Concentrates on developing concepts and ideas followed immediately by developing computational skills and problem solving Features a collection of important topics from mathematics of finance algebra linear programming probability and descriptive statistics with an emphasis on cross discipline principles and practices For the professional who wants to acquire essential mathematical tools for application in business economics and the life and social sciences **Compartmental Modeling with Networks** Gilbert G Walter,Martha Contreras,2012-12-06 The subject of mathematical modeling has expanded considerably in the past twenty years This is in part due to the appearance of the text by Kemeny and Snell Mathematical Models in the Social Sciences as well as the one by Maki and Thompson Mathematical Models and Applica tions Courses in the subject became a widespread if not standard part of the undergraduate mathematics curriculum These courses included var ious mathematical topics such as Markov chains differential equations linear programming optimization and probability However if our own experience is any guide they failed to teach mathematical modeling that is few students who completed the course were able to carry out the mod eling paradigm in all but the simplest cases They could be taught to solve differential equations or find the equilibrium distribution of a regular Markov chain but could not in general make the transition from real world statements to their mathematical formulation The reason is that this process is very difficult much more difficult than doing the mathemat ical analysis After all that is exactly what engineers spend a great deal of time learning to do But they concentrate on very specific problems and rely on previous formulations of similar problems It is unreasonable to expect students to learn to convert a large variety of real world problems to mathematical statements but this is what these courses require A Second Course in Stochastic Processes Samuel Karlin,Howard E. Taylor,1981-06-29 This Second Course continues the development of the theory and applications of stochastic processes as promised in the preface of A First Course We emphasize a careful treatment of basic structures in stochastic processes in symbiosis with the analysis of natural classes of stochastic processes arising from the biological physical and social sciences **A First Course in Stochastic Processes** Samuel Karlin,Howard E.

Taylor,2012-12-02 The purpose level and style of this new edition conform to the tenets set forth in the original preface The authors continue with their tack of developing simultaneously theory and applications intertwined so that they refurbish and elucidate each other The authors have made three main kinds of changes First they have enlarged on the topics treated in the first edition Second they have added many exercises and problems at the end of each chapter Third and most important they have supplied in new chapters broad introductory discussions of several classes of stochastic processes not dealt with in the first edition notably martingales renewal and fluctuation phenomena associated with random sums stationary stochastic processes and diffusion theory *Decision Support System* Susmita Bandyopadhyay,2023-03-13 This book presents different tools and techniques used for Decision Support Systems DSS including decision tree and table and their modifications multi criteria decision analysis techniques network tools of decision support and various case based reasoning methods supported by examples and case studies Latest developments for each of the techniques have been discussed separately and possible future research areas are duly identified as intelligent and spatial DSS Features Discusses all the major tools and techniques for Decision Support System supported by examples Explains techniques considering their deterministic and stochastic aspects Covers network tools including GERT and Q GERT Explains the application of both probability and fuzzy orientation in the pertinent techniques Includes a number of relevant case studies along with a dedicated chapter on software This book is aimed at researchers and graduate students in information systems data analytics operation research including management and computer science areas **Graph Calc Mnl Fin Math** Tan,2002-07 **The Theory of Matrices: 374p. v. 2., 276p** Feliks Ruvimovich Gantmakher,1959 Discrete Algorithmic Mathematics, Second Edition Stephen B. Maurer,Anthony Ralston,1998 What is discrete algorithmic mathematics Mathematical preliminaries Algorithms Mathematical induction Graphs and trees Fundamental counting methods Difference equations Probability An introduction to mathematical logic Algorithmic linear algebra Infinite processes in discrete mathematics Sorting things out with sorting **Mathematical Reviews** ,2005 Finite Mathematics, Student Solutions Manual Abe Mizrahi,Michael Sullivan,1999-09-10 Making math relevant to the real world The eighth edition lives up to its reputation as a clearly written comprehensive finite mathematics text Students will find a greater emphasis on real world applications from the fields of business and social sciences making the material relevant to their studies From the increased use of boxed formulas to informative explanations of examples Mizrahi and Sullivan make this edition even more accessible to students Hallmark features The comprehensive and readable coverage has received praise through seven editions The text is flexibly organized A flowchart in the preface shows instructors how to sequence chapters to meet specific needs Well graded exercise sets at the end of each section help students gain a better understanding of the material End of chapter study questions for review include true false and fill in the blank questions with answers An abundance of realistic examples are provided that gradually increase in difficulty to develop conceptual understanding Mathematical questions from CPA CMA and actuary exams show

students the relevance of the material Also available by Mizrahi and Sullivan Mathematics an Applied Approach 7 E 0 471 32203 2   An Introduction to Stochastic Processes Edward P. C. Kao,1997 The book offers Excellent balanced development of theory and applications Topical and organizational flexibility for the instructor Use of Matlab throughout to illustrate solution methods plus a helpful Matlab tutorial at the end of the book   *Finite Mathematics* Daniel P. Maki,Maynard Thompson,1999-10 Finite Mathematics is designed for the one term course in finite math taken primarily by students majoring in business economics life sciences and the social sciences The mathematical integrity of the previous edition has been maintained in the new edition The core topics and their applications are presented in Parts One and Two of this text and additional applications are developed in Part Three Parts One and Two are independent of one another thus either probability or linear mathematics may be studied first The authors emphasis is on developing and testing the student s problem solving ability They use discussions and examples to illustrate ideas and techniques to aid the student in acquiring these skills Some examples and exercises are straightforward computation while others require that the problem be solved by combining several techniques Since it is impossible to provide examples of every type of problem the student will encounter in the text the authors have identified and treated the fundamental principles that should be used in unfamiliar situations   Analysis for Optimal Decisions Derek W. Bunn,1982 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine   *Finite Mathematics and Calculus with Applications* Margaret L. Lial,Charles David Miller,Raymond N. Greenwell,1993   *Computer Communication Networks* Fayez Gebali,2004   **Computer Applications for Finite Mathematics and Calculus** Donald R. Coscia,1986 Contains fifty five programs addressing topics in finite mathematics probability and statistics and calculus   *Stochastic Processes and Their First Passage Times* M. T. Wasan,1994

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