



excursions in

modern mathematics

peter lannenbaum

Excursions In Modern Mathematics 8th Edition

Arthur James Wells



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Excursions in Modern Mathematics Peter Tannenbaum, 2013-08-27 Excursions in Modern Mathematics introduces non math majors to the power of math by exploring applications like social choice and management science showing that math is more than a set of formulas Ideal for an applied liberal arts math course Tannenbaum s text is known for its clear accessible writing style and its unique exercise sets that build in complexity from basic to more challenging The Eighth Edition offers more real data and applications to connect with today s students expanded coverage of applications like growth and revised exercise sets MyMathLab exercise sets are expanded and the new Ready To Go MyMathLab course makes course set up even easier

Discrete Mathematics Foundations and Applications Dr. Mohd Shadab Alam, 2025-02-16 Discrete Mathematics is a systematically structured academic textbook that provides a rigorous exploration of fundamental mathematical concepts essential for various disciplines particularly computer science and engineering The book comprehensively covers key topics including set theory relations propositional calculus functions Boolean algebra recurrence relations graph theory trees planar graphs combinatorial counting principles algebraic systems and matrix algebra The text is designed to facilitate a progressive understanding of discrete mathematical structures beginning with foundational principles and advancing toward more complex theoretical frameworks Each chapter presents clearly defined concepts supplemented with illustrative examples well structured exercises and relevant diagrams to reinforce comprehension and analytical reasoning A distinguishing feature of this book is its emphasis on the practical applicability of discrete mathematics in computational and algorithmic problem solving Topics such as graph theory Boolean algebra and recurrence relations play a pivotal role in the design and analysis of algorithms data structures and digital logic circuits Furthermore the integration of combinatorial techniques and algebraic structures enhances students ability to model and solve real world mathematical problems With its academic rigor and structured pedagogical approach this book is well suited for undergraduate students educators and researchers seeking a deeper insight into discrete mathematical principles The accessible yet comprehensive presentation ensures that learners with diverse mathematical backgrounds can engage effectively with the material Discrete Mathematics serves as a valuable resource for fostering logical reasoning problem solving skills and mathematical abstraction making it indispensable for academic and professional growth

The Mathematics of Games David G. Taylor, 2014-12-01 The Mathematics of Games An Introduction to Probability takes an inquiry based approach to teaching the standard material for an introductory probability course It also discusses different games and ideas that relate to the law of large numbers as well as some more mathematical topics not typically found in similar books Written in an accessible

A Tour through Graph Theory Karin R Saoub, 2017-11-02 A Tour Through Graph Theory introduces graph theory to students who are not mathematics majors Rather than featuring formal mathematical proofs the book focuses on explanations and logical reasoning It also includes thoughtful discussions of historical problems and modern questions The book inspires readers to

learn by working through examples drawing graphs and exploring concepts This book distinguishes itself from others covering the same topic It strikes a balance of focusing on accessible problems for non mathematical students while providing enough material for a semester long course Employs graph theory to teach mathematical reasoning Expressly written for non mathematical students Promotes critical thinking and problem solving Provides rich examples and clear explanations without using proofs

Games, Gambling, and Probability David G. Taylor, 2021-06-22 Many experiments have shown the human brain generally has very serious problems dealing with probability and chance A greater understanding of probability can help develop the intuition necessary to approach risk with the ability to make more informed and better decisions The first four chapters offer the standard content for an introductory probability course albeit presented in a much different way and order The chapters afterward include some discussion of different games different ideas that relate to the law of large numbers and many more mathematical topics not typically seen in such a book The use of games is meant to make the book and course feel like fun Since many of the early games discussed are casino games the study of those games along with an understanding of the material in later chapters should remind you that gambling is a bad idea you should think of placing bets in a casino as paying for entertainment Winning can obviously be a fun reward but should not ever be expected Changes for the Second Edition New chapter on Game Theory New chapter on Sports Mathematics The chapter on Blackjack which was Chapter 4 in the first edition appears later in the book Reorganization has been done to improve the flow of topics and learning New sections on Arkham Horror Uno and Scrabble have been added Even more exercises were added The goal for this textbook is to complement the inquiry based learning movement In my mind concepts and ideas will stick with the reader more when they are motivated in an interesting way Here we use questions about various games not just casino games to motivate the mathematics and I would say that the writing emphasizes a just in time mathematics approach Topics are presented mathematically as questions about the games themselves are posed Table of Contents Preface 1 Mathematics and Probability 2 Roulette and Craps Expected Value 3 Counting Poker Hands 4 More Dice Counting and Combinations and Statistics 5 Game Theory Poker Bluffing and Other Games 6 Probability Stochastic Matrices Board Game Movement 7 Sports Mathematics Probability Meets Athletics 8 Blackjack Previous Methods Revisited 9 A Mix of Other Games 10 Betting Systems Can You Beat the System 11 Potpourri Assorted Adventures in Probability Appendices Tables Answers and Selected Solutions Bibliography Biography Dr David G Taylor is a professor of mathematics and an associate dean for academic affairs at Roanoke College in southwest Virginia He attended Lebanon Valley College for his B S in computer science and mathematics and went to the University of Virginia for his Ph D While his graduate school focus was on studying infinite dimensional Lie algebras he started studying the mathematics of various games in order to have a more undergraduate friendly research agenda Work done with two Roanoke College students Heather Cook and Jonathan Marino appears in this book Currently he owns over 100 different board games and enjoys using probability in his decision making

while playing most of those games In his spare time he enjoys reading cooking coding playing his board games and spending time with his six year old dog Lilly Student Resource Guide for Excursions in Modern Mathematics Dale R. Buske, Peter Tannenbaum, 2013-02-11 In addition to the worked out solutions to odd numbered exercises from the text this resource guide contains selected hints that support the reader including lists of skills that will help prepare for the chapter exams

Student Resource Guide Dale R. Buske, Peter Tannenbaum, 2006-08 Student Resource Guide contains full worked out solutions to odd numbered exercises from the text selected hints that point the reader in one of many directions leading to a solution and keys to student success including lists of skills that will help prepare for chapter exams *Current Practices in Quantitative Literacy* Rick Gillman, 2006 Presents a wide sampling of efforts being made on campuses across the country to achieve our common goal of having a quantitatively literate citizenry *El-Hi Textbooks and Serials in Print* , 2006 The Cumulative Book Index , 1998 A world list of books in the English language El-Hi Textbooks & Serials in Print, 2005 , 2005

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