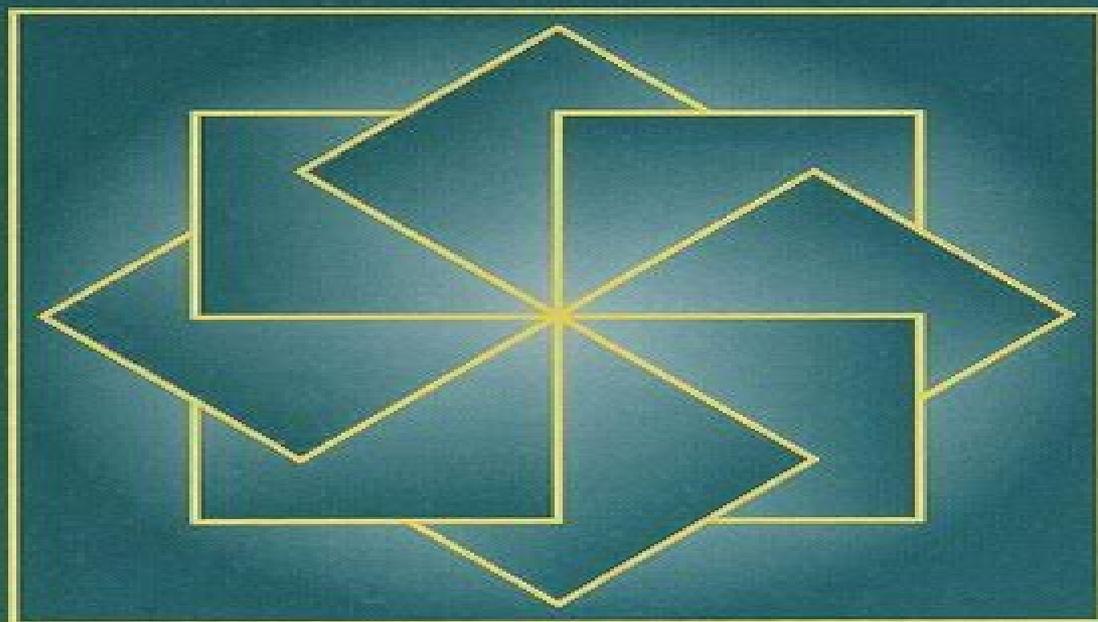


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Mathematical and Algorithmic Puzzles Pramod Ganapathi, 2024-05-29 This book presents serious mathematical and algorithmic puzzles that are mostly counterintuitive The presented puzzles are simultaneously entertaining challenging intriguing and haunting This book introduces its readers to counterintuitive mathematical ideas and revolutionary algorithmic insights from a wide variety of topics The presented solutions that are discovered by many mathematicians and computer scientists are highly counterintuitive and show supreme mathematical beauty These counterintuitive solutions are intriguing to the degree that they shatter our preconceived notions shake our long held belief systems debunk our fundamental intuitions and finally rob us of sleep and haunt us for a lifetime Multiple ways of attacking the same puzzle are presented which teach the application of elegant problem solving strategies

Mathematical Foundations of Computer Science 2011 Filip Murlak, Piotr Sankowski, 2011-08-09 This volume constitutes the refereed proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science MFCS 2011 held in Warsaw Poland in August 2011 The 48 revised full papers presented together with 6 invited talks were carefully reviewed and selected from 129 submissions Topics covered include algorithmic game theory algorithmic learning theory algorithms and data structures automata grammars and formal languages bioinformatics complexity computational geometry computer assisted reasoning concurrency theory cryptography and security databases and knowledge based systems formal specifications and program development foundations of computing logic in computer science mobile computing models of computation networks parallel and distributed computing quantum computing semantics and verification of programs and theoretical issues in artificial intelligence

Exploring Formalisation Clara Löh, 2022-09-24 This primer on mathematics formalisation provides a rapid hands on introduction to proof verification in Lean After a quick introduction to Lean the basic techniques of human readable formalisation are introduced illustrated by simple examples on maps induction and real numbers Subsequently typical design options are discussed and brought to life through worked examples in the setting of simplicial complexes a higher dimensional generalisation of graph theory Finally the book demonstrates how current research in algebraic and geometric topology can

be formalised by means of suitable abstraction layers Informed by the author's recent teaching and research experience this book allows students and researchers to quickly get started with formalising and checking their proofs The core material of the book is accessible to mathematics students with basic programming skills For the final chapter familiarity with elementary category theory and algebraic topology is recommended [Random Walks on Infinite Groups](#) Steven P. Lalley, 2023-05-08 This text presents the basic theory of random walks on infinite finitely generated groups along with certain background material in measure theoretic probability The main objective is to show how structural features of a group such as amenability nonamenability affect qualitative aspects of symmetric random walks on the group such as transience recurrence speed entropy and existence or nonexistence of nonconstant bounded harmonic functions The book will be suitable as a textbook for beginning graduate level courses or independent study by graduate students and advanced undergraduate students in mathematics with a solid grounding in measure theory and a basic familiarity with the elements of group theory The first seven chapters could also be used as the basis for a short course covering the main results regarding transience recurrence decay of return probabilities and speed The book has been organized and written so as to be accessible not only to students in probability theory but also to students whose primary interests are in geometry ergodic theory or geometric group theory

Finance and the Behavioral Prospect James Ming Chen, 2016-10-01 This book explains how investor behavior from mental accounting to the combustible interplay of hope and fear affects financial economics The transformation of portfolio theory begins with the identification of anomalies Gaps in perception and behavioral departures from rationality spur momentum irrational exuberance and speculative bubbles Behavioral accounting undermines the rational premises of mathematical finance Assets and portfolios are imbued with affect Positive and negative emotions warp investment decisions Whether hedging against intertemporal changes in their ability to bear risk or climbing a psychological hierarchy of needs investors arrange their portfolios and financial affairs according to emotions and perceptions Risk aversion and life cycle theories of consumption provide possible solutions to the equity premium puzzle an iconic financial mystery Prospect theory has questioned the cogency of the efficient capital markets hypothesis Behavioral portfolio theory arises from a psychological account of security potential and aspiration [Leveraging Blockchain for Future-Ready Libraries](#) Senthilkumar, KR, Jagajeevan, R., Krishnakumar, G., 2024-12-02 Blockchain technology is revolutionizing the way libraries manage secure and share information in the digital age With its potential to enhance cataloging systems improve data integrity and ensure transparent transactions blockchain offers innovative solutions to the challenges faced by modern library networks By exploring these advancements this book provides a thorough analysis of how blockchain can transform information management bringing efficiency and security to the forefront of library operations Leveraging Blockchain for Future Ready Libraries offers readers an in depth look at the practical applications of blockchain in the library world backed by real world case studies of successful implementations The book highlights both the benefits

and challenges of adopting this technology offering valuable insights for librarians IT professionals library science students and academics interested in the evolving intersection of blockchain and information management Mathematical Optimization Terminology Andre A. Keller, 2017-11-10 Mathematical Optimization Terminology A Comprehensive Glossary of Terms is a practical book with the essential formulations illustrative examples real world applications and main references on the topic This book helps readers gain a more practical understanding of optimization enabling them to apply it to their algorithms This book also addresses the need for a practical publication that introduces these concepts and techniques Discusses real world applications of optimization and how it can be used in algorithms Explains the essential formulations of optimization in mathematics Covers a more practical approach to optimization **An Illustrated Introduction to Topology and Homotopy Solutions Manual for Part 1 Topology** Sasho Kalajdzievski, Derek Krepski, Damjan Kalajdzievski, 2020-08-13 This solution manual accompanies the first part of the book An Illustrated Introduction to Topology and Homotopy by the same author Except for a small number of exercises in the first few sections we provide solutions of the 228 odd numbered problems appearing in first part of the book Topology The primary targets of this manual are the students of topology This set is not disjoint from the set of instructors of topology courses who may also find this manual useful as a source of examples exam problems etc □□□ James R. Munkres, □□□□, 2004 **An Introduction to Point-Set Topology** Shelby J. Kilmer, 2026-01-01 An Introduction to Point Set Topology is intended for use in a beginning topology course for undergraduates or as an elective course for graduate students The book's style can be thought of as a hybrid between the Texas style Moore method of teaching topology and the more traditional styles In the Texas style the students are given the definitions and the statements of the theorems and then they present their proofs to the class This type of participation builds students confidence and provides them with a deeper understanding of the subject that they will retain longer This text offers some of the theorems with their proofs and leaves others for the students to prove and present Those theorems chosen to have their proofs presented in the text keep the course moving forward under the instructor's guidance and increase student comprehension An Introduction to Point Set Topology covers a broad range of topological concepts including but not limited to metric spaces topological spaces homeomorphisms connected sets compact sets product spaces Hausdorff spaces sequences limits weak topologies the axiom of choice Zorn's lemma and Nets Incorporating both historical references and color graphics the material keeps readers engaged The book's goals include increasing student participation thus promoting a deeper knowledge through an intuitive understanding of how and why topology was developed in the way that it was This instructor friendly accessible text is also accompanied by a detailed solutions manual to support both experienced topologists and other mathematicians who would like to teach topology Provides wide coverage of the fundamentals of topology at the undergraduate or beginning graduate level Increases student participation by having students present many of the theorems with their proofs as is done with the traditional Texas style Moore method of teaching topology Includes brief remarks about

the mathematicians involved in the early development of topology Ancillary material includes an Instructors Solutions Manual which paired with the text is designed to encourage colleges without a topologist to offer an introductory course in topology Features ancillary material including a comprehensive Instructors Solutions Manual *Topology* James Raymond Munkres,1975 **Introductory Topology: Exercises And Solutions** Mohammed Hichem Mortad,2014-02-28 The book offers a good introduction to topology through solved exercises It is mainly intended for undergraduate students Most exercises are given with detailed solutions **Introductory Topology: Exercises And Solutions (Second Edition)** Mohammed Hichem Mortad,2016-10-18 The book is well written and there is a welcome breadth in the choice of topics I think this book is a valuable resource Students who meticulously work through all the problems in the book in an intelligent way will surely gain considerable insight into the subject teachers who don t tell their students about it will find it a valuable source for exam questions The Mathematical GazetteThe book offers a good introduction to topology through solved exercises It is mainly intended for undergraduate students Most exercises are given with detailed solutions In the second edition some significant changes have been made other than the additional exercises There are also additional proofs as exercises of many results in the old section What You Need To Know which has been improved and renamed in the new edition as Essential Background Indeed it has been considerably beefed up as it now includes more remarks and results for readers convenience The interesting sections True or False and Tests have remained as they were apart from a very few changes **Topology; a First Course [By] James R. Munkres** James R. Munkres,1974 **Topology** James R. Munkres,2013-08-28 For a senior undergraduate or first year graduate level course in Introduction to Topology Appropriate for a one semester course on both general and algebraic topology or separate courses treating each topic separately This text is designed to provide instructors with a convenient single text resource for bridging between general and algebraic topology courses Two separate distinct sections one on general point set topology the other on algebraic topology are each suitable for a one semester course and are based around the same set of basic core topics Optional independent topics and applications can be studied and developed in depth depending on course needs and preferences *Topology* James R. Munkres,1975 *Topology Illustrated. Volume 2* Peter Saveliev,2024-10 Algebraic topology is the main subject of this book that initially follows a two semester first course in topology It furthermore takes the reader to more advanced parts of algebraic topology as well as some applications the shape of the universe configuration spaces digital image analysis data analysis social choice exchange economy An overview of discrete calculus is also included The book contains over 1000 color illustrations and over 1000 exercises CONTENTS Chapter 4 Spaces 1 Compacta 2 Quotients 3 Cell complexes 4 Triangulations 5 Manifolds 6 Products Chapter 5 Maps 1 Homotopy 2 Cell maps 3 Maps of polyhedra 4 The Euler and Lefschetz numbers 5 Set valued maps Chapter 6 Forms 1 Discrete forms and cochains 2 Calculus on cubical complexes 3 Cohomology 4 Metric tensor Chapter 7 Flows 1 Metric complexes 2 ODEs 3 PDEs 4 Social choice **Topology Problem Solver** , Thorough coverage is

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