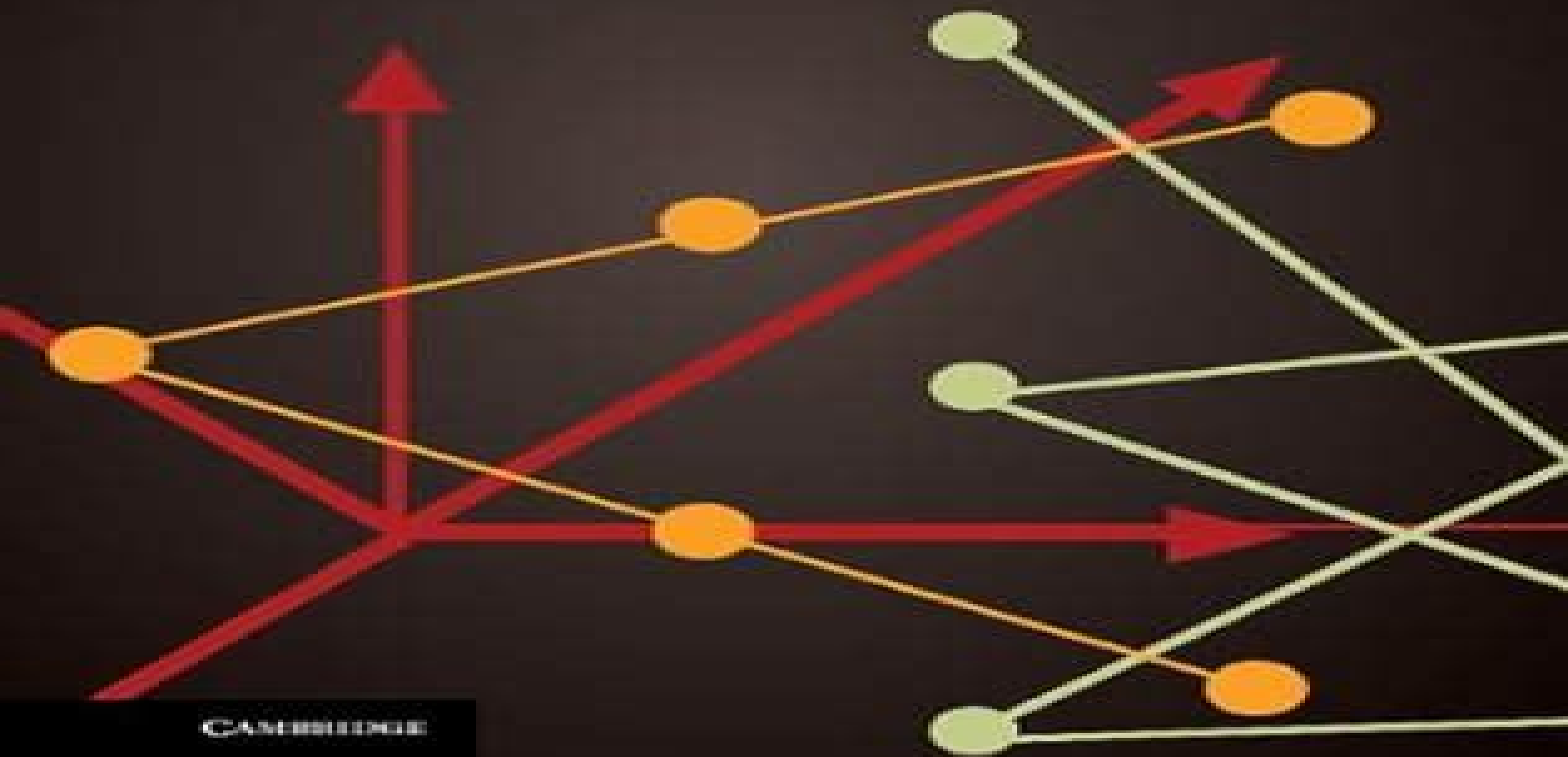


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MATROIDS

A Geometric Introduction



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Matroids: A Geometric Introduction Gary Gordon, Jennifer McNulty, 2012-08-02 Matroid theory is a vibrant area of research that provides a unified way to understand graph theory linear algebra and combinatorics via finite geometry This book provides the first comprehensive introduction to the field which will appeal to undergraduate students and to any mathematician interested in the geometric approach to matroids Written in a friendly fun to read style and developed from the authors own undergraduate courses the book is ideal for students Beginning with a basic introduction to matroids the book quickly familiarizes the reader with the breadth of the subject and specific examples are used to illustrate the theory and to help students see matroids as more than just generalizations of graphs Over 300 exercises are included with many hints and solutions so students can test their understanding of the materials covered The authors have also included several projects and open ended research problems for independent study

Matroids: A Geometric Introduction Gary Gordon, Jennifer McNulty, 2012-08-02 This friendly introduction helps undergraduate students understand and appreciate matroid theory and its connections to geometry

The Mathematics of Various Entertaining Subjects Jennifer Beineke, Jason Rosenhouse, 2019-04-09 The history of mathematics is filled with major breakthroughs resulting from solutions to recreational problems Problems of interest to gamblers led to the modern theory of probability for example and surreal numbers were inspired by the game of Go Yet even with such groundbreaking findings and a wealth of popular level books exploring puzzles and brainteasers research in recreational mathematics has often been neglected The Mathematics of Various Entertaining Subjects brings together authors from a variety of specialties to present fascinating problems and solutions in recreational mathematics Contributors to the book show how sophisticated mathematics can help construct mazes that look like famous people how the analysis of crossword puzzles has much in common with understanding epidemics and how the theory of electrical circuits is useful in understanding the classic Towers of Hanoi puzzle The card game SET is related to the theory of error correcting codes and simple tic tac toe takes on a new life when played on an affine plane Inspirations for the book s wealth of problems include board games card tricks fake coins flexagons pencil puzzles poker and so much more Looking at a plethora of eclectic games and puzzles The Mathematics of Various Entertaining Subjects is sure to entertain challenge and inspire academic mathematicians and avid math enthusiasts alike

The Algorithm Design Manual Steven S. Skiena, 2020-10-05 My absolute favorite for this kind of interview preparation is Steven Skiena s The Algorithm Design Manual More than any other book it helped me understand just how astonishingly commonplace graph problems are they should be part of every working programmer s toolkit The book also covers basic data structures and sorting algorithms which is a nice bonus every 1 pager has a simple picture making it easy to remember This is a great way to learn how to identify hundreds of problem types Steve Yegge Get that Job at Google Steven Skiena s Algorithm Design Manual retains its title as the best and most comprehensive practical algorithm guide to help identify and

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Congressus Numerantium ,1970 **Mathematical Reviews** ,2003 *Theory of Matroids*

Neil White,1986-04-03 The theory of matroids is unique in the extent to which it connects such disparate branches of combinatorial theory and algebra as graph theory lattice theory design theory combinatorial optimization linear algebra group theory ring theory and field theory Furthermore matroid theory is alone among mathematical theories because of the number and variety of its equivalent axiom systems Indeed matroids are amazingly versatile and the approaches to the

subject are varied and numerous This book is a primer in the basic axioms and constructions of matroids The contributions by various leaders in the field include chapters on axiom systems lattices basis exchange properties orthogonality graphs and networks constructions maps semi modular functions and an appendix on cryptomorphisms The authors have concentrated on giving a lucid exposition of the individual topics explanations of theorems are preferred to complete proofs and original work is thoroughly referenced In addition exercises are included for each topic

Hyperplane Arrangements and Oriented Matroids Jennifer McNulty,1993

Matroid Theory J. G. Oxley,2006 The study of matroids is a branch of discrete mathematics with basic links to graphs lattices codes transversals and projective geometries Matroids are of fundamental importance in combinatorial optimization and their applications extend into electrical engineering and statics This incisive survey of matroid theory falls into two parts the first part provides a comprehensive introduction to the basics of matroid theory while the second treats more advanced topics The book contains over five hundred exercises and includes for the first time in one place short proofs for most of the subjects major theorems The final chapter lists sixty unsolved problems and details progress towards their solutions

Introduction to the Theory of Matroids W. T. Tutte,1971

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