Matroid Theory

Second Edition

James Oxley

Matroid Theory

R. v. Randow

Matroid Theory:

   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

   Matroid Theory D. J. A. Welsh,2010-01-01 The theory of matroids connects disparate branches of combinatorial theory and algebra such as graph and lattice theory combinatorial optimization and linear algebra This text describes standard examples and investigation results and it uses elementary proofs to develop basic matroid properties before advancing to a more sophisticated treatment 1976 edition   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   *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   A Source Book in Matroid Theory KUNG,2013-11-09 by Gian Carlo Rota The subjects of mathematics like the subjects of mankind have finite lifespans which the historian will record as he freezes history at one instant of time There are the old subjects loaded with distinctions and honors As their problems are solved away and the applications reaped by engineers and other moneymen ponderous treatises gather dust in library basements awaiting the day when a generation as yet unborn will rediscover the lost paradise in awe Then there are the middle aged subjects You can tell which they are by roaming the halls of Ivy League universities or the Institute for Advanced Studies Their high priests haughtily refuse fabulous offers from eager provin cial universities while receiving special permission from the President of France to lecture in English at the College de France Little do they know that the load of technicalities is already critical about to crack and submerge their theorems in the dust of oblivion that once enveloped the dinosaurs Finally there are the young subjects combinatorics for instance Wild

eyed individuals gingerly pick from a mountain of intractable problems chil dishly babbling the first words of what will soon be a new language Child hood will end with the first Seminaire Bourbaki It could be impossible to find a more fitting example than matroid theory of a subject now in its infancy The telltale signs for an unfailing diagnosis are the abundance of deep theorems going together with a paucity of theories **Matroid Theory and its Applications in Electric Network Theory and in Statics** Andras Recski,2013-06-29 I The topics of this book The concept of a matroid has been known for more than five decades Whitney 1935 introduced it as a common generalization of graphs and matrices In the last two decades it has become clear how important the concept is for the following reasons 1 Combinatorics or discrete mathematics was considered by many to be a collection of interesting sometimes deep but mostly unrelated ideas However like other branches of mathematics combinatorics also encompasses some gen eral tools that can be learned and then applied to various problems Matroid theory is one of these tools 2 Within combinatorics the relative importance of algorithms has in creased with the spread of computers Classical analysis did not even consider problems where only a finite number of cases were to be studied Now such problems are not only considered but their complexity is often analyzed in con siderable detail Some questions of this type for example the determination of when the so called greedy algorithm is optimal cannot even be answered without matroidal tools **Introduction to the Theory of Matroids** R. v. Randow,2012-12-06 Matroid theory has its origin in a paper by H Whitney entitled On the abstract properties of linear dependence 35 which appeared in 1935 The main objective of the paper was to establish the essential abstract properties of the concepts of linear dependence and independence in vector spaces and to use these for the axiomatic definition of a new algebraic object namely the matroid Furthermore Whitney showed that these axioms are also abstractions of certain graph theoretic concepts This is very much in evidence when one considers the basic concepts making up the structure of a matroid some reflect their linear algebraic origin while others reflect their graph theoretic origin Whitney also studied a number of important examples of matroids The next major development was brought about in the forties by R Rado s matroid generalisation of P Hall s famous marriage theorem This provided new impulses for transversal theory in which matroids today play an essential role under the name of independence structures cf the treatise on transversal theory by L Mirsky 26J At roughly the same time R P Dilworth estab lished the connection between matroids and lattice theory Thus matroids became an essential part of combinatorial mathematics About ten years later W T Tutte 30 developed the funda mentals of matroids in detail from a graph theoretic point of view and characterised graphic matroids as well as the larger class of those matroids that are representable over any field *Topics in Matroid Theory* Leonidas S. Pitsoulis,2013-10-24 Topics in Matroid Theory provides a brief introduction to matroid theory with an emphasis on algorithmic consequences Matroid theory is at the heart of combinatorial optimization and has attracted various pioneers such as Edmonds Tutte Cunningham and Lawler among others Matroid theory encompasses matrices graphs and other combinatorial entities under a common solid algebraic framework thereby providing

the analytical tools to solve related difficult algorithmic problems The monograph contains a rigorous axiomatic definition of matroids along with other necessary concepts such as duality minors connectivity and representability as demonstrated in matrices graphs and transversals The author also presents a deep decomposition result in matroid theory that provides a structural characterization of graphic matroids and show how this can be extended to signed graphic matroids as well as the immediate algorithmic consequences **Matroid Theory** Joseph Edmond Bonin,1996 This volume contains the proceedings of the 1995 AMS IMS SIAM Joint Summer Research Conference on Matroid Theory held at the University of Washington Seattle The book features three comprehensive surveys that bring the reader to the forefront of research in matroid theory Joseph Kung s encyclopedic treatment of the critical problem traces the development of this problem from its origins through its numerous links with other branches of mathematics to the current status of its many aspects James Oxley s survey of the role of connectivity and structure theorems in matroid theory stresses the influence of the Wheels and Whirls Theorem of Tutte and the Splitter Theorem of Seymour Walter Whiteley s article unifies applications of matroid theory to constrained geometrical systems including the rigidity of bar and joint frameworks parallel drawings and splines These widely accessible articles contain many new results and directions for further research and applications The surveys are complemented by selected short research papers The volume concludes with a chapter of open problems Features Self contained accessible surveys of three active research areas in matroid theory Many new results Pointers to new research topics A chapter of open problems Mathematical applications Applications and connections to other disciplines such as computer aided design and electrical and structural engineering **Matroid Theory** László Lovász,András Recski,1985 **Matroid Applications** Neil White,1992-03-05 This volume the third in a sequence that began with The Theory of Matroids and Combinatorial Geometries concentrates on the applications of matroid theory to a variety of topics from engineering rigidity and scene analysis combinatorics graphs lattices codes and designs topology and operations research the greedy algorithm *Combinatorial Geometries* Neil White,1987-09-24 This book is a continuation of Theory of Matroids also edited by Neil White and again consists of a series of related surveys that have been contributed by authorities in the area The volume begins with three chapters on coordinatisations followed by one on matching theory The next two deal with transversal and simplicial matroids These are followed by studies of the important matroid invariants The final chapter deals with matroids in combinatorial optimisation a topic of much current interest The whole volume has been carefully edited to ensure a uniform style and notation throughout and to make a work that can be used as a reference or as an introductory textbook for graduate students or non specialists *Introduction to the Theory of Matroids* W. T. Tutte,1966 The basic concepts and methods of matroid theory are presented The Memorandum defines a matroid axiomatically and introduces the matroids associated with the structures of graphs and chain groups It discusses the subgraphs and contractions of a graph exhibits corresponding simplifications of chain groups and matroids and studies the rank of a matroid It also examines a property of matroids called

connection and shows that it corresponds to the property of nonseparability for graphs It further treats the detailed structure of a matroid that is it studies the relation between a given circuit and the rest of the matroid and concludes by considering the regular matroids and their associated chain groups The regular matroids mark an interesting half way stage between the matroids corresponding to graphs on the one hand and the binary matroids corresponding to chain groups over GF 2 on the other Author Matroid Theory and Its Applications A. Barlotti,2011-06-08 Lectures T H Brylawski The Tutte polynomial D J A Welsh Matroids and combinatorial optimisation Seminars M Barnabei A Brini G C Rota Un introduzione alla teoria delle funzioni di M bius A Brini Some remarks on the critical problem J Oxley On 3 connected matroids and graphs R Peele The poset of subpartitions and Cayley s formula for the complexity of a complete graph A Recski Engineering applications of matroids T Zaslavisky Voltage graphic matroids *Matroid Theory and Its Applications* Adriano Barlotti,1982 **Matroid Theory** J. G. Oxley,2011 James Oxley provides a comprehensive introduction to matroid theory covering the very basics to more advanced topics With over 500 exercises and proofs of major theorems this book is the ideal reference and class text for academics and graduate students in mathematics and computer science *Matroid Theory* James G. Oxley,1992 **Linear Programming Duality** Achim Bachem,Walter Kern,2012-12-06 This book presents an elementary introduction to the theory of oriented matroids The way oriented matroids are intro duced emphasizes that they are the most general and hence simplest structures for which linear Programming Duality results can be stated and proved The main theme of the book is duality Using Farkas Lemma as the basis the authors start withre sults on polyhedra in Rn and show how to restate the essence of the proofs in terms of sign patterns of oriented ma troids Most of the standard material in Linear Programming is presented in the setting of real space as well as in the more abstract theory of oriented matroids This approach clarifies the theory behind Linear Programming and proofs become simpler The last part of the book deals with the facial structure of polytopes respectively their oriented matroid counterparts It is an introduction to more advanced topics in oriented matroid theory Each chapter contains suggestions for furt herreading and the references provide an overview of the research in this field Pattern Recognition on Oriented Matroids Andrey O. Matveev,2017-09-11 Pattern Recognition on Oriented Matroids covers a range of innovative problems in combinatorics poset and graph theories optimization and number theory that constitute a far reaching extension of the arsenal of committee methods in pattern recognition The groundwork for the modern committee theory was laid in the mid 1960s when it was shown that the familiar notion of solution to a feasible system of linear inequalities has ingenious analogues which can serve as collective solutions to infeasible systems A hierarchy of dialects in the language of mathematics for instance open cones in the context of linear inequality systems regions of hyperplane arrangements and maximal covectors or topes of oriented matroids provides an excellent opportunity to take a fresh look at the infeasible system of homogeneous strict linear inequalities the standard working model for the contradictory two class pattern recognition problem in its geometric setting The universal language of oriented matroid

theory considerably simplifies a structural and enumerative analysis of applied aspects of the infeasibility phenomenon The present book is devoted to several selected topics in the emerging theory of pattern recognition on oriented matroids the questions of existence and applicability of matroidal generalizations of committee decision rules and related graph theoretic constructions to oriented matroids with very weak restrictions on their structural properties a study in which in particular interesting subsequences of the Farey sequence appear naturally of the hierarchy of the corresponding tope committees a description of the three tope committees that are the most attractive approximation to the notion of solution to an infeasible system of linear constraints an application of convexity in oriented matroids as well as blocker constructions in combinatorial optimization and in poset theory to enumerative problems on tope committees an attempt to clarify how elementary changes one element reorientations in an oriented matroid affect the family of its tope committees a discrete Fourier analysis of the important family of critical tope committees through rank and distance relations in the tope poset and the tope graph the characterization of a key combinatorial role played by the symmetric cycles in hypercube graphs Contents Oriented Matroids the Pattern Recognition Problem and Tope Committees Boolean Intervals Dehn Sommerville Type Relations Farey Subsequences Blocking Sets of Set Families and Absolute Blocking Constructions in Posets Committees of Set Families and Relative Blocking Constructions in Posets Layers of Tope Committees Three Tope Committees Halfspaces Convex Sets and Tope Committees Tope Committees and Reorientations of Oriented Matroids Topes and Critical Committees Critical Committees and Distance Signals Symmetric Cycles in the Hypercube Graphs   Matrices and Matroids for Systems Analysis Kazuo Murota,2009-10-27 A matroid is an abstract mathematical structure that captures combinatorial properties of matrices This book offers a unique introduction to matroid theory emphasizing motivations from matrix theory and applications to systems analysis This book serves also as a comprehensive presentation of the theory and application of mixed matrices developed primarily by the present author in the 1990 s A mixed matrix is a convenient mathematical tool for systems analysis compatible with the physical observation that fixed constants and system parameters are to be distinguished in the description of engineering systems This book will be extremely useful to graduate students and researchers in engineering mathematics and computer science From the reviews The book has been prepared very carefully contains a lot of interesting results and is highly recommended for graduate and postgraduate students Andr s Recski Mathematical Reviews Clippings 2000m 93006

Whispering the Techniques of Language: An Mental Quest through **Matroid Theory**

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