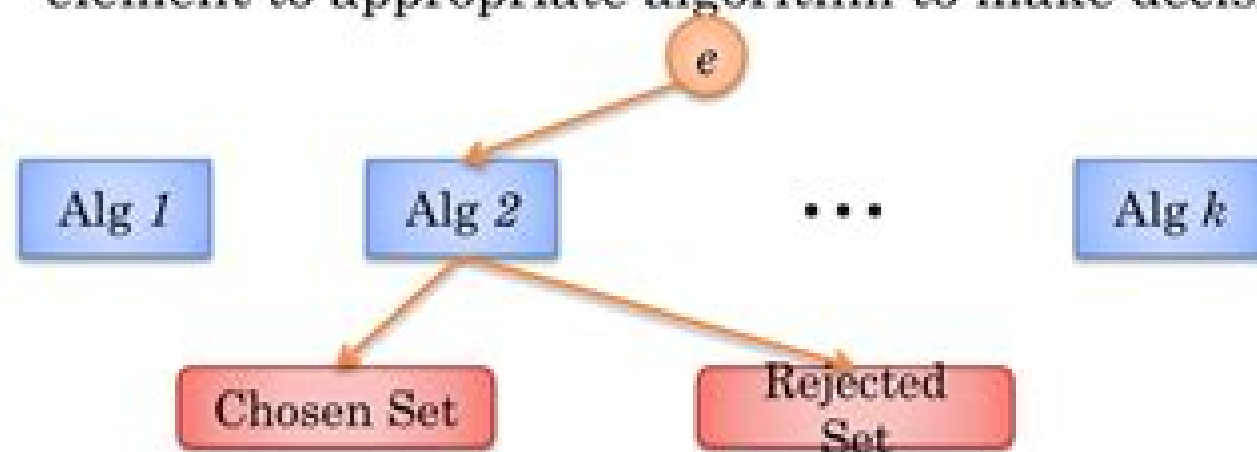# REGULAR MATROIDS: DECOMPOSITION

- Seymour's Regular Matroid Decomposition Theorem: Every regular matroid can be decomposed into 1-, 2-, and 3-sums of graphic, cographic, and R_{10}
  - Know $O(1)$-competitive algorithms for all three!
- Natural approach: do decomposition, run appropriate algorithm in each graphic, cographic, R_{10} produced
  - In parallel: instance of algorithm for each, forward element to appropriate algorithm to make decision

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Matroid Decomposition

Ronald L. Graham,Martin Grötschel,László Lovász

Matroid Decomposition:

   Matroid Decomposition K. Truemper,1998   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** 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   **Automata, Languages and Programming** Samson Abramsky,Cyril Gavoille,Claude Kirchner,Friedhelm Meyer auf der Heide,Paul Spirakis,2010-06-30 The two volume set LNCS 6198 and LNCS 6199 constitutes the refereed proceedings of the 37th International Colloquium on Automata Languages and Programming ICALP 2010 held in Bordeaux France in July 2010 The 106 revised full papers 60 papers for track A 30 for track B and 16 for track C presented together with 6 invited talks were carefully reviewed and selected from a total of 389 submissions The papers are grouped in three major tracks on algorithms complexity and games on logic semantics automata and theory of programming as well as on foundations of networked computation models algorithms and information management LNCS 6198 contains 60 contributions of track A selected from 222 submissions as well as 2 invited talks

   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   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   **The Internally 4-Connected Binary Matroids with No $M(K_{3,3})$-Minor** Dillon Mayhew,Gordon Royle,Geoff Whittle,2010 The authors give a characterization of the internally 4 connected binary matroids that have no minor isomorphic to M K_ 3 3 Any such matroid is either cographic or is isomorphic to a particular single element extension of the bond matroid of a cubic or quartic Mobius ladder or is isomorphic to one of eighteen sporadic matroids   **Integer Programming and Combinatorial Optimization** Jens Vygen,Jarosław Byrka,2024-05-21 This book constitutes the refereed proceedings of the 25th International Conference on Integer Programming and Combinatorial Optimization IPCO 2024 held in Wroc aw Poland during July 3 5 2024 The 33 full papers presented were carefully reviewed and selected from 101 submissions IPCO is under the auspices of the Mathematical Optimization Society and it is an important forum for presenting present recent developments in theory computation and applications The scope of IPCO is viewed in a broad sense to include algorithmic and structural results in integer programming and combinatorial optimization as well as revealing computational studies and novel applications of discrete optimization to practical problems   **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

Combinatorial Optimization A. Ridha Mahjoub,Vangelis Markakis,Ioannis Milis,Vangelis Th. Paschos,2012-07-05 This book constitutes the thoroughly refereed post conference proceedings of the Second International Symposium on Combinatorial Optimization ISCO 2012 held in Athens Greece in April 2012 The 37 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 94 regular and 30 short submissions They present original research on all aspects of combinatorial optimization ranging from mathematical foundations and theory of algorithms to computational studies and practical applications   Proceedings of the Fifth Annual ACM-SIAM Symposium on Discrete Algorithms ,1994-01-01 The January 1994 Symposium was jointly sponsored by the ACM Special Interest Group for Automata and Computability Theory and the SIAM Activity Group on Discrete Mathematics Among the topics in 79 unrefereed papers comparing point sets under projection on line search in a simple polygon low degree tests maximal empty ellipsoids roots of a polynomial and its derivatives dynamic algebraic algorithms fast comparison of evolutionary trees an efficient algorithm for dynamic text editing and tight bounds for dynamic storage allocation No index Annotation copyright by Book News Inc Portland OR   **Handbook of Combinatorics** R.L. Graham,1995-12-11 Handbook of Combinatorics   *Canadian Journal of Mathematics* ,1980-06   **Handbook of Combinatorics** Ronald L. Graham,Martin Grotschel,Martin Grötschel,László Lovász,2003-03 Covers combinatorics in graph theory theoretical computer science optimization and convexity theory plus applications in operations research electrical engineering statistical mechanics chemistry molecular biology pure mathematics and computer science   **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   *Handbook of Combinatorics Volume 1* Ronald L. Graham,Martin Grötschel,László Lovász,1995-12-11 Handbook of Combinatorics Volume 1 focuses on basic methods paradigms results issues and trends across the broad spectrum of combinatorics The selection first elaborates on the basic graph theory connectivity and network flows and matchings and extensions Discussions focus on stable sets and claw free graphs nonbipartite matching

multicommodity flows and disjoint paths minimum cost circulations and flows special proof techniques for paths and circuits and Hamilton paths and circuits in digraphs The manuscript then examines coloring stable sets and perfect graphs and embeddings and minors The book takes a look at random graphs hypergraphs partially ordered sets and matroids Topics include geometric lattices structural properties linear extensions and correlation dimension and posets of bounded degree hypergraphs and set systems stability transversals and matchings and phase transition The manuscript also reviews the combinatorial number theory point lattices convex polytopes and related complexes and extremal problems in combinatorial geometry The selection is a valuable reference for researchers interested in combinatorics *Automata, Languages, and Programming* Artur Czumaj,Kurt Mehlhorn,Andrew Pitts,Roger Wattenhofer,2012-06-24 This two volume set of LNCS 7391 and LNCS 7392 constitutes the refereed proceedings of the 39th International Colloquium on Automata Languages and Programming ICALP 2012 held in Warwick UK in July 2012 The total of 123 revised full papers presented in this volume were carefully reviewed and selected from 432 submissions They are organized in three tracks focussing on algorithms complexity and games logic semantics automata and theory of programming and foundations of networked computation STACS 2007 Wolfgang Thomas,Pascal Weil,2007-05-24 This book constitutes the refereed proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science STACS 2007 held in Aachen Germany in February 2007 The 56 revised full papers presented together with 3 invited papers address the whole range of theoretical computer science as well as current challenges like biological computing quantum computing and mobile and net computing *Integer Programming and Related Areas* Rabe v. Randow,2012-12-06 The fields of integer programming and combinatorial optimization continue to be areas of great vitality with an ever increasing number of publications and journals appearing A classified bibliography thus continues to be necessary and useful today even more so than it did when the project of which this is the fifth volume was started in 1970 in the Institut fur Okonometrie und Operations Research of the University of Bonn The pioneering first volume was compiled by Claus Kastning during the years 1970 1975 and appeared in 1976 as Volume 128 of the series Lecture Notes in Economics and Mathematical Systems published by the Springer Verlag Work on the project was continued by Dirk Hausmann Reinhardt Euler and Rabe von Randow and resulted in the publication of the second third and fourth volumes in 1978 1982 and 1985 Volumes 160 197 and 243 of the above series The present book constitutes the fifth volume of the bibliography and covers the period from autumn 1984 to the end of 1987 It contains 5864 new publications by 4480 authors and was compiled by Rabe von Randow Its form is practically identical to that of the first four volumes some additions having been made to the subject list *Systems Analysis by Graphs and Matroids* Kazuo Murota,2012-12-06 Recent technology involves large scale physical or engineering systems consisting of thousands of interconnected elementary units This monograph illustrates how engineering problems can be solved using the recent results of combinatorial mathematics through appropriate mathematical modeling The structural solvability of a system of linear or nonlinear

equations as well as the structural controllability of a linear time invariant dynamical system are treated by means of graphs and matroids Special emphasis is laid on the importance of relevant physical observations to successful mathematical modelings The reader will become acquainted with the concepts of matroid theory and its corresponding matroid theoretical approach This book is of interest to graduate students and researchers

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