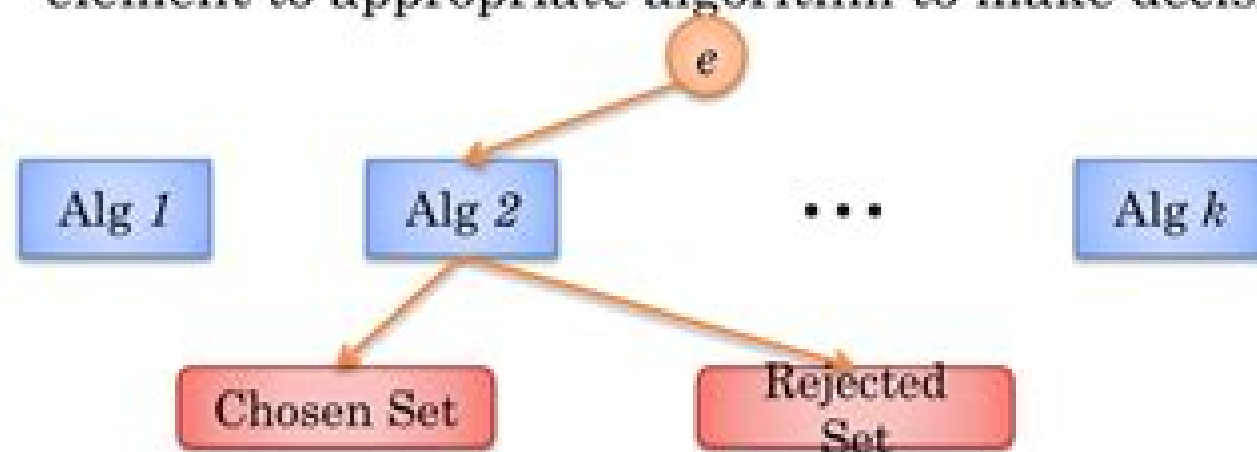


# REGULAR MATROIDS: DECOMPOSITION

- 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



# Matroid Decomposition

**SA Adler**



## **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      **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      *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      **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      Handbook of Combinatorics Ronald L. Graham, Martin Grötschel, 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      *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 refereed 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      *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      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 Wrocław 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      **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      **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      **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      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      Surveys in Combinatorics 2013 Simon R. Blackburn, Stefanie Gerke, Mark J. Wildon, 2013 Surveys of recent

important developments in combinatorics covering a wide range of areas in the field      *Encyclopedia of Optimization*  
Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling      **Submodular Functions and Optimization** S. Fujishige, 1991-01-24 The importance of submodular functions has been widely recognized in recent years in combinatorial optimization This is the first book devoted to the exposition of the theory of submodular functions from an elementary technical level to an advanced one A unifying view of the theory is shown by means of base polyhedra and duality for submodular and supermodular systems Among the subjects treated are neoflows submodular flows independent flows polymatroidal flows submodular analysis submodular programs duality Lagrangian functions principal partitions nonlinear optimization with submodular constraints lexicographically optimal bases fair resource allocation Special emphasis is placed on the constructive aspects of the theory which lead to practical efficient algorithms      **Combinatorial Optimization** Alexander Schrijver, 2003-02-12 This book offers an in depth overview of polyhedral methods and efficient algorithms in combinatorial optimization These methods form a broad coherent and powerful kernel in combinatorial optimization with strong links to discrete mathematics mathematical programming and computer science In eight parts various areas are treated each starting with an elementary introduction to the area with short elegant proofs of the principal results and each evolving to the more advanced methods and results with full proofs of some of the deepest theorems in the area Over 4000 references to further research are given and historical surveys on the basic subjects are presented

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