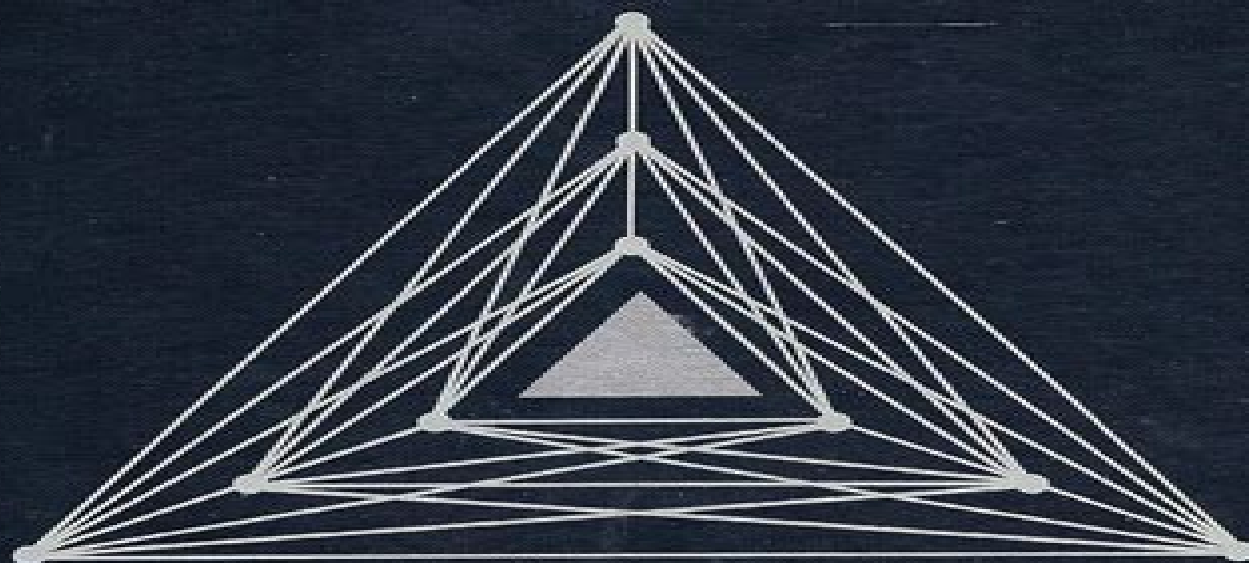# COMPUTERS AND INTRACTABILITY
A Guide to the Theory of NP-Completeness

Michael R. Garey / David S. Johnson

Computers And Intractability A To The Theory Of Np Completeness

Oded Goldreich,Arnold L. Rosenberg,Alan L. Selman

Computers And Intractability A To The Theory Of Np Completeness:

   Computers and Intractability Michael R. Garey,David S. Johnson,1979 Shows how to recognize NP complete problems and offers proactical suggestions for dealing with them effectively The book covers the basic theory of NP completeness provides an overview of alternative directions for further research and contains and extensive list of NP complete and NP hard problems with more than 300 main entries and several times as many results in total This book is suitable as a supplement to courses in algorithm design computational complexity operations research or combinatorial mathematics and as a text for seminars on approximation algorithms or computational complexity It provides not only a valuable source of information for students but also an essential reference work for professionals in computer science Back cover

   Computers and Intractability Michael R. Garey,David S. Johnson,1979   **P, NP, and NP-Completeness** Oded Goldreich,2010-08-16 The focus of this book is the P versus NP Question and the theory of NP completeness It also provides adequate preliminaries regarding computational problems and computational models The P versus NP Question asks whether or not finding solutions is harder than checking the correctness of solutions An alternative formulation asks whether or not discovering proofs is harder than verifying their correctness It is widely believed that the answer to these equivalent formulations is positive and this is captured by saying that P is different from NP Although the P versus NP Question remains unresolved the theory of NP completeness offers evidence for the intractability of specific problems in NP by showing that they are universal for the entire class Amazingly enough NP complete problems exist and furthermore hundreds of natural computational problems arising in many different areas of mathematics and science are NP complete   *Logic, Automata, and Computational Complexity* Bruce M. Kapron,2023-05-22 Professor Stephen A Cook is a pioneer of the theory of computational complexity His work on NP completeness and the P vs NP problem remains a central focus of this field Cook won the 1982 Turing Award for his advancement of our understanding of the complexity of computation in a significant and profound way This volume includes a selection of seminal papers embodying the work that led to this award exemplifying Cook s synthesis of ideas and techniques from logic and the theory of computation including NP completeness proof complexity bounded arithmetic and parallel and space bounded computation These papers are accompanied by contributed articles by leading researchers in these areas which convey to a general reader the importance of Cook s ideas and their enduring impact on the research community The book also contains biographical material Cook s Turing Award lecture and an interview Together these provide a portrait of Cook as a recognized leader and innovator in mathematics and computer science as well as a gentle mentor and colleague   Topics on Domination S.T. Hedetniemi,R.C. Laskar,1991-02-01 The contributions in this volume are divided into three sections theoretical new models and algorithmic The first section focuses on properties of the standard domination number G the second section is concerned with new variations on the domination theme and the third is primarily concerned with finding classes of graphs for which the domination number and several other

domination related parameters can be computed in polynomial time **Key Concepts in Discrete Mathematics** Udayan Bhattacharya,2025-02-20 Key Concepts in Discrete Mathematics offers a comprehensive introduction to the fascinating realm of discrete mathematics covering a diverse array of topics essential for students and professionals in computer science mathematics engineering and related fields Through clear explanations illustrative examples and engaging exercises we provide readers with a solid foundation in discrete mathematics and its practical applications Our book covers a wide range of topics from fundamental concepts like sets relations and functions to advanced topics such as graph theory combinatorics and algorithm analysis We present complex concepts in a clear and accessible manner with detailed explanations and step by step examples guiding readers through each topic We emphasize practical applications and real world examples that demonstrate the relevance of discrete mathematics in various fields including computer science cryptography network theory and optimization Abundant exercises and problems ranging from basic to challenging allow readers to practice and reinforce their understanding of key concepts and techniques Additional online resources including solutions to selected exercises interactive quizzes and supplementary materials enhance the learning experience and provide opportunities for further exploration Whether used as a textbook in a classroom setting or as a self study guide Key Concepts in Discrete Mathematics serves as an invaluable resource for students seeking to deepen their understanding and for educators and professionals interested in exploring this essential area of mathematics Theoretical Computer Science Oded Goldreich,Arnold L. Rosenberg,Alan L. Selman,2006-03-11 This volume commemorates Shimon Even one of founding fathers of Computer Science in Israel who passed away on May 1 2004 This Festschrift contains research contributions surveys and educational essays in theoretical computer science written by former students and close collaborators of Shimon The essays address natural computational problems and are accessible to most researchers in theoretical computer science Chicago Journal of Theoretical Computer Science ,1999 *Proceedings* ,1993 ISTCS DEGREES93 was sponsored by the Israel Academy of Sciences and Humanities and held in Natanya Israel June 1993 In addition to the 32 papers reporting on recent research the proceedings include the three invited talks on efficient interactive proofs and applications to approximation Shafi G

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