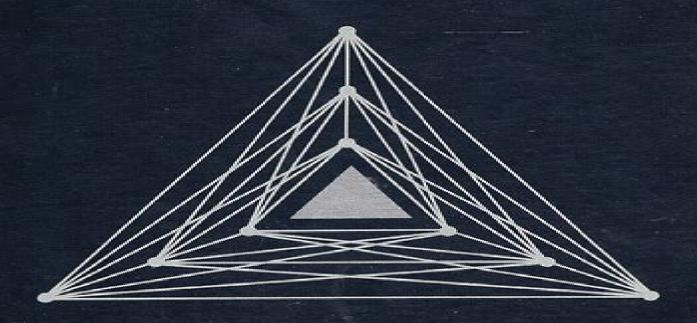
COMPUTERS AND INTRACTABILITY A Guide to the Theory of NP-Completeness

Michael R. Garey / David S. Johnson



Computers Intractability A To The Theory Of Np Completeness

National Semiconductor Corporation

Computers 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 and NP-Completeness Oded Goldreich, 2010-08-16 The focus of this book is the P versus NP Ouestion 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 Logic, Automata, and Computational Complexity Bruce M. Kapron, 2023-05-22 Professor Stephen A Cook is complete 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 Computing

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of Some Two-person Perfect-information Games Thomas Jerome Schaefer,1978 SIAM Journal on Computing Society for Industrial and Applied Mathematics,1999 Annual Symposium on Theoretical Aspects of Computer Science ,1993 Graph-grammars and Their Application to Computer Science ,1987 Programmable Logic Devices Databook and Design Guide National Semiconductor Corporation,1993

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