

Distance in Graphs

Buckley, F.

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Distance In Graphs Buckley Harary

Ulrich Knauer



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Distance In Graphs Fred Buckley, Frank Harary, 1990-01-21 **Nonsplit Geodetic Number of a Graph** Tejaswini K M., Venkanagouda M Goudar, We investigate the relationship between nonsplit geodetic number and geodetic number We also obtain the nonsplit geodetic number in the cartesian product of graphs **Handbook of Graph Theory** Jonathan L. Gross, Jay Yellen, 2003-12-29 The Handbook of Graph Theory is the most comprehensive single source guide to graph theory ever published Best selling authors Jonathan Gross and Jay Yellen assembled an outstanding team of experts to contribute overviews of more than 50 of the most significant topics in graph theory including those related to algorithmic and optimization approach *Handbook of Graph Theory, Second Edition* Jonathan L. Gross, Jay Yellen, Ping Zhang, 2013-12-17 In the ten years since the publication of the best selling first edition more than 1 000 graph theory papers have been published each year Reflecting these advances Handbook of Graph Theory Second Edition provides comprehensive coverage of the main topics in pure and applied graph theory This second edition over 400 pages longer than its predecessor incorporates 14 new sections Each chapter includes lists of essential definitions and facts accompanied by examples tables remarks and in some cases conjectures and open problems A bibliography at the end of each chapter provides an extensive guide to the research literature and pointers to monographs In addition a glossary is included in each chapter as well as at the end of each section This edition also contains notes regarding terminology and notation With 34 new contributors this handbook is the most comprehensive single source guide to graph theory It emphasizes quick accessibility to topics for non experts and enables easy cross referencing among chapters *Algebraic Graph Theory* Ulrich Knauer, 2011-09-29 Graph models are extremely useful for almost all applications and applicators as they play an important role as structuring tools They allow to model net structures like roads computers telephones instances of abstract data structures like lists stacks trees and functional or object oriented programming In turn graphs are models for mathematical objects like categories and functors This highly self contained book about algebraic graph theory is written with a view to keep the lively and unconventional atmosphere of a spoken text to communicate the enthusiasm the author feels about this subject The focus is on homomorphisms and endomorphisms matrices and eigenvalues It ends with a challenging chapter on the topological question of embeddability of Cayley graphs on surfaces *Fundamente der Graphentheorie* Lutz Volkmann, 2013-03-08 Dieses Buch stellt eine umfassende und leicht lesbare Einf hrung in die Graphentheorie dar Das Hauptziel ist es dem Leser insbesondere dem Studierenden Methoden zu bermitteln und ihn f r graphentheoretisches Denken zu interessieren Der Text enth lt neben dem gesamten klassischen Bestand der Graphentheorie eine F lle neuer und moderner Aspekte die zum gro en Teil erstmalig in dieser Form zusammengefa t worden sind Besonders hervorzuheben sind die Kapitel ber Hamiltonsche Graphen Turniertheorie Faktorthorie Dominanz und Irredundanz Kanten und Totalf rbung Ramsey Theorie und lokal semi vollst ndige Digraphen Ausf hrliche Beweise zahlreiche Beispiele und eine gelungene didaktische Aufbereitung machen das Werk

durchsichtig und verständlich **Combinatorial Algorithms** Henning Fernau, Binhai Zhu, 2025-08-19 This book constitutes the refereed proceedings of the 36th International Workshop on Combinatorial Algorithms IWOCA 2025 held in Bozeman MT USA during July 21-24, 2025. The 32 full papers and two abstracts of invited talks included in this book were carefully reviewed and selected from 71 submissions. The IWOCA conference series has provided an annual forum for researchers who design algorithms to address the myriad combinatorial problems underlying computer applications in science, engineering, and business.

Combinatorics and Graph Theory John Harris, Jeffrey L. Hirst, Michael Mossinghoff, 2009-04-03 There are certain rules that one must abide by in order to create a successful sequel. Randy Meeks from the trailer to *Scream 2*. While we may not follow the precise rules that Mr. Meeks had in mind for successful sequels, we have made a number of changes to the text in this second edition. In the new edition, we continue to introduce new topics with concrete examples; we provide complete proofs of almost every result, and we preserve the book's friendly style and lively presentation, interspersing the text with occasional jokes and quotations. The first two chapters on graph theory and combinatorics remain largely independent and may be covered in either order. Chapter 3 on infinite combinatorics and graphs may also be studied independently, although many readers will want to investigate trees, matchings, and Ramsey theory for finite sets before exploring these topics for infinite sets in the third chapter. Like the first edition, this text is aimed at upper-division undergraduate students in mathematics, though others will find much of interest as well. It assumes only familiarity with basic proof techniques and some experience with matrices and infinite series. The second edition offers many additional topics for use in the classroom or for independent study. Chapter 1 includes a new section covering distance and related notions in graphs, following an expanded introductory section. This new section also introduces the adjacency matrix of a graph and describes its connection to important features of the graph.

Mathematical Combinatorics, Vol. 3/2009 Linfan Mao, Papers on Open Distance Pattern Uniform Graphs, Some Results on Super Mean Graphs, Achromatic Coloring on Double Star Graph Families, Functions Preserving Convergence of Series in Fuzzy n -Normed Spaces, Smarandache k -Constrained Number of Paths and Cycles, A Spacetime Geodesics of the Schwarzschild Space and Its Deformation, Retract and other topics. Contributors: Linfan Mao, A. Anitha, S. Arumugam, E. Sampathkumar, Vernold Vivin, J. Venkatachalam, M. Akbar, Ali M. M. Sayed, Elagan, Mohamad Rafi, Segi Rahmat, Khalil Paryab, Ebrahim Zare, and others.

MATHEMATICAL COMBINATORICS (INTERNATIONAL BOOK SERIES), VOLUME 3, 2009 Linfan Mao, 2009-02-22 Papers by many authors about the Chromatic Polynomial of Smarandache E -Product of Graphs, Smarandache k -Constrained Number of Paths and Cycles, Smarandache multi-space, Smarandache E -Schwarzschild space, Smarandache k -degree equitable k -set, Smarandache k -labeling, Smarandache k -constrained labeling, Smarandache space, Smarandache 1 -achromatic coloring for the central graph, middle graph, total graph, and line graph of double star graph, Smarandache k -edge m -labeling, Smarandache k -super m -mean labeling, etc.

Fuzzy Graph Theory Sunil Mathew, John N. Mordeson, Davender S. Malik, 2017-12-30 This book

provides a timely overview of fuzzy graph theory laying the foundation for future applications in a broad range of areas It introduces readers to fundamental theories such as Craine s work on fuzzy interval graphs fuzzy analogs of Marczewski s theorem and the Gilmore and Hoffman characterization It also introduces them to the Fulkerson and Gross characterization and Menger s theorem the applications of which will be discussed in a forthcoming book by the same authors This book also discusses in detail important concepts such as connectivity distance and saturation in fuzzy graphs Thanks to the good balance between the basics of fuzzy graph theory and new findings obtained by the authors the book offers an excellent reference guide for advanced undergraduate and graduate students in mathematics engineering and computer science and an inspiring read for all researchers interested in new developments in fuzzy logic and applied mathematics **First**

International Tainan-Moscow Algebra Workshop Y. Fong,U. Knauer,A. V. Mikhalev,2016-11-21 No detailed description available for First International Tainan Moscow Algebra Workshop Bioinformatics Algorithms Ion Mandoiu,Alexander Zelikovsky,2008-03-11 Presents algorithmic techniques for solving problems in bioinformatics including applications that shed new light on molecular biology This book introduces algorithmic techniques in bioinformatics emphasizing their application to solving novel problems in post genomic molecular biology Beginning with a thought provoking discussion on the role of algorithms in twenty first century bioinformatics education Bioinformatics Algorithms covers General algorithmic techniques including dynamic programming graph theoretical methods hidden Markov models the fast Fourier transform seeding and approximation algorithms Algorithms and tools for genome and sequence analysis including formal and approximate models for gene clusters advanced algorithms for non overlapping local alignments and genome tilings multiplex PCR primer set selection and sequence network motif finding Microarray design and analysis including algorithms for microarray physical design missing value imputation and meta analysis of gene expression data Algorithmic issues arising in the analysis of genetic variation across human population including computational inference of haplotypes from genotype data and disease association search in case control epidemiologic studies Algorithmic approaches in structural and systems biology including topological and structural classification in biochemistry and prediction of protein protein and domain domain interactions Each chapter begins with a self contained introduction to a computational problem continues with a brief review of the existing literature on the subject and an in depth description of recent algorithmic and methodological developments and concludes with a brief experimental study and a discussion of open research challenges This clear and approachable presentation makes the book appropriate for researchers practitioners and graduate students alike

Advanced Computational Methods for Knowledge Engineering Thanh Binh Nguyen,Tien van Do,Hoai An Le Thi,Ngoc Thanh Nguyen,2016-05-01 This proceedings consists of 20 papers which have been selected and invited from the submissions to the 4th International Conference on Computer Science Applied Mathematics and Applications ICCSAMA 2016 held on 2 3 May 2016 in Laxenburg Austria The conference is organized into 5 sessions Advanced Optimization Methods and

Their Applications Models for ICT applications Topics on discrete mathematics Data Analytic Methods and Applications and Feature Extractio respectively All chapters in the book discuss theoretical and practical issues connected with computational methods and optimization methods for knowledge engineering The editors hope that this volume can be useful for graduate and Ph D students and researchers in Applied Sciences Computer Science and Applied Mathematics **Lecture Notes on Graph Theory** Sudev Naduvath,2017-12-08 The book is based on the syllabus of Computer Science and Engineering Programme under APJ Abdul Kalam Technological University Kerala *Structural Analysis of Complex Networks* Matthias Dehmer,2010-10-14 Because of the increasing complexity and growth of real world networks their analysis by using classical graph theoretic methods is oftentimes a difficult procedure As a result there is a strong need to combine graph theoretic methods with mathematical techniques from other scientific disciplines such as machine learning and information theory in order to analyze complex networks more adequately Filling a gap in literature this self contained book presents theoretical and application oriented results to structurally explore complex networks The work focuses not only on classical graph theoretic methods but also demonstrates the usefulness of structural graph theory as a tool for solving interdisciplinary problems Special emphasis is given to methods related to applications in biology chemistry linguistics and data analysis graph colorings graph polynomials information measures for graphs metrical properties of graphs partitions and decompositions and quantitative graph measures *Structural Analysis of Complex Networks* is suitable for a broad interdisciplinary readership of researchers practitioners and graduate students in discrete mathematics statistics computer science machine learning artificial intelligence computational and systems biology cognitive science computational linguistics and mathematical chemistry The book may be used as a supplementary textbook in graduate level seminars on structural graph analysis complex networks or network based machine learning methods Mathematical and computational Models G. Arulmozhi,2003 *Combinatorial Algorithms* W. F. Symth,Subramanian Arumugam,2012-12-22 This book constitutes the thoroughly referred post workshop proceedings of the 23rd International Workshop on Combinatorial Algorithms IWOC A 2012 held in Krishnankoil Tamil Nadu India in July 2012 The 32 revised full papers presented were carefully reviewed and selected from a total of 88 submissions The papers are organized in topical sections in algorithms and data Structures applications including Bioinformatics Networking etc combinatorics of words and strings combinatorial optimization combinatorial enumeration decompositions and combinatorial designs complexity theory structural and computational computational biology and graph theory and combinatorics submissions **International Journal of Mathematical Combinatorics, Volume 1, 2010** Linfan Mao, The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences *Mathematical*

Combinatorics, Vol. 1/2010 Linfan Mao, Papers on Singed Total Domatic Number of a Graph Euler Savarys Formula for the Planar Curves in Two Dimensional Lightlike Cone Dynamical Knot and Their Fundamental Group Counting Rooted Eulerian Planar Maps and other topics Contributors H B Walikar Shailaja S Shirkol Kishori P Narayankar B Sooryanarayana Vishu Kumar M Manjula K P Siva Kota Reddy S Vijay V Lokesha Junliang Cai Yanpei Liu and others

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