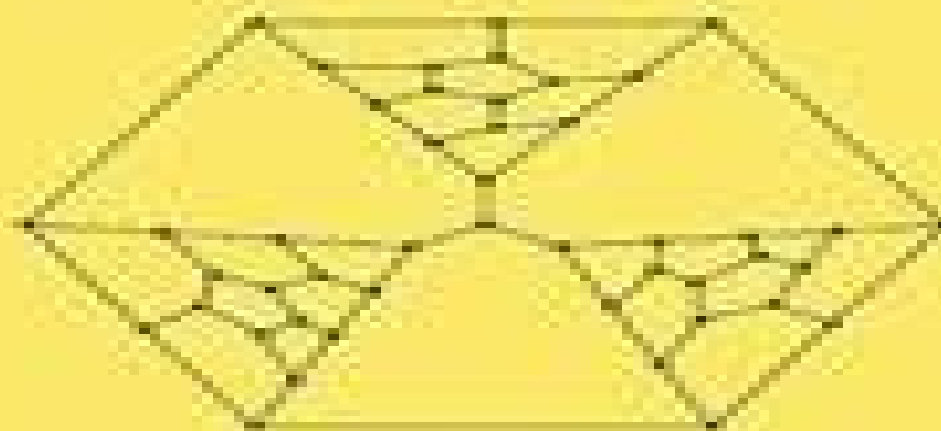


R. Balakrishnan
K. Ranganathan

A TEXTBOOK OF GRAPH THEORY



Springer

Textbook Of Graph Theory

Jonathan L. Gross, Jay Yellen



Textbook Of Graph Theory:

A Textbook of Graph Theory R. Balakrishnan, K. Ranganathan, 2012-09-20 In its second edition expanded with new chapters on domination in graphs and on the spectral properties of graphs this book offers a solid background in the basics of graph theory Introduces such topics as Dirac's theorem on k connected graphs and more *A Textbook of Graph Theory*

, 2012-09-21 **The Fascinating World of Graph Theory** Arthur Benjamin, Gary Chartrand, Ping Zhang, 2017-06-06 The history formulas and most famous puzzles of graph theory Graph theory goes back several centuries and revolves around the study of graphs mathematical structures showing relations between objects With applications in biology computer science transportation science and other areas graph theory encompasses some of the most beautiful formulas in mathematics and some of its most famous problems The Fascinating World of Graph Theory explores the questions and puzzles that have been studied and often solved through graph theory This book looks at graph theory's development and the vibrant individuals responsible for the field's growth Introducing fundamental concepts the authors explore a diverse plethora of classic problems such as the Lights Out Puzzle and each chapter contains math exercises for readers to savor An eye opening journey into the world of graphs The Fascinating World of Graph Theory offers exciting problem solving possibilities for mathematics and beyond **A Beginner's Guide to Graph Theory** W.D. Wallis, 2000-06-15 Because of its wide

applicability graph theory is one of the fast growing areas of modern mathematics Graphs arise as mathematical models in areas as diverse as management science chemistry resource planning and computing Moreover the theory of graphs provides a spectrum of methods of proof and is a good training ground for pure mathematics Thus many colleges and universities provide a first course in graph theory that is intended primarily for mathematics majors but accessible to other students at the senior level This text is intended for such a course I have presented this course many times Over the years classes have included mainly mathematics and computer science majors but there have been several engineers and occasional psychologists as well Often undergraduate and graduate students are in the same class Many instructors will no doubt find themselves with similar mixed groups It is to be expected that anyone enrolling in a senior level mathematics course will be comfortable with mathematical ideas and notation In particular I assume the reader is familiar with the basic concepts of set theory has seen mathematical induction and has a passing acquaintance with matrices and algebra However one cannot assume that the students in a first graph theory course will have a good knowledge of any specific advanced area My reaction to this is to avoid too many specific prerequisites The main requirement namely a little mathematical maturity may have been acquired in a variety of ways

A Textbook of Graph Theory R. Balakrishnan, K. Ranganathan, 2012-09-20 This second edition includes two new chapters one on domination in graphs and the other on the spectral properties of graphs the latter including a discussion on graph energy The chapter on graph colorings has been enlarged covering additional topics such as homomorphisms and colorings and the uniqueness of the Mycielskian up to isomorphism This book also introduces several

interesting topics such as Dirac's theorem on k connected graphs Harary Nash-Williams's theorem on the hamiltonicity of line graphs Toida McKee's characterization of Eulerian graphs the Tutte matrix of a graph Fournier's proof of Kuratowski's theorem on planar graphs the proof of the nonhamiltonicity of the Tutte graph on 46 vertices and a concrete application of triangulated graphs

Graph Theory and Its Applications, Second Edition Jonathan L. Gross, Jay Yellen, 2005-09-22
Already an international bestseller with the release of this greatly enhanced second edition *Graph Theory and Its Applications* is now an even better choice as a textbook for a variety of courses a textbook that will continue to serve your students as a reference for years to come The superior explanations broad coverage and abundance of illustrations and exercises that positioned this as the premier graph theory text remain but are now augmented by a broad range of improvements Nearly 200 pages have been added for this edition including nine new sections and hundreds of new exercises mostly non routine What else is new New chapters on measurement and analytic graph theory Supplementary exercises in each chapter ideal for reinforcing reviewing and testing Solutions and hints often illustrated with figures to selected exercises nearly 50 pages worth Reorganization and extensive revisions in more than half of the existing chapters for smoother flow of the exposition Foreshadowing the first three chapters now preview a number of concepts mostly via the exercises to pique the interest of reader Gross and Yellen take a comprehensive approach to graph theory that integrates careful exposition of classical developments with emerging methods models and practical needs Their unparalleled treatment provides a text ideal for a two semester course and a variety of one semester classes from an introductory one semester course to courses slanted toward classical graph theory operations research data structures and algorithms or algebra and topology

Graph Theory, 1736-1936 Norman Biggs, E. Keith Lloyd, Robin J. Wilson, 1986 First published in 1976 this book has been widely acclaimed both for its significant contribution to the history of mathematics and for the way that it brings the subject alive Building on a set of original writings from some of the founders of graph theory the book traces the historical development of the subject through a linking commentary The relevant underlying mathematics is also explained providing an original introduction to the subject for students From reviews The book serves as an excellent example in fact as a model of a new approach to one aspect of mathematics when mathematics is considered as a living vital and developing tradition Edward A Maziark in *Isis* Biggs Lloyd and Wilson's unusual and remarkable book traces the evolution and development of graph theory Conceived in a very original manner and obviously written with devotion and a very great amount of painstaking historical research it contains an exceptionally fine collection of source material and to a graph theorist it is a treasure chest of fascinating historical information and curiosities with rich food for thought Gabriel Dirac in *Centaurus* The lucidity grace and wit of the writing makes this book a pleasure to read and re read S H Hollingdale in *Bulletin of the Institute of Mathematics and its Applications*

Introduction to Graph Theory Douglas Brent West, 1996 Flexibly designed for CS students needing math review Also covers some advanced cutting edge topics running 120 pages

and intended for grad students in the last chapter 8 This text fits senior year or intro grad course for CS and math majors

Graph Theory Singh G. Suresh, 2010-08 Graphical representations have given a new dimension to the problem solving exercise in diverse subjects like mathematics bio sciences chemical sciences computer science and information technology social sciences and linguistics This book is devoted to the models of graph theory and the solutions provided by these models to the problems encountered in these diverse fields of study The text offers a comprehensive and coherent introduction to the fundamentals of graph theory besides giving an application based approach to the subject Divided into 13 chapters the book begins with explicating the basics of graph theory moving onto the techniques involved while drawing the graphs The subsequent chapters dwell onto the problems solved by the Ramsey table and Perfect graphs The algebraic graphs and their concepts are also explained with great precision The concluding chapters discuss research oriented methodologies carried out in the field of graph theory The research works include the work done by the author himself such as on Union Graphs and Triangular Graceful Graphs and their ramifications Primarily intended as a textbook for the undergraduate and postgraduate students of mathematics and computer science this book will be equally useful for the undergraduate students of engineering Apart from that the book can be used as a reference by the researchers and mathematicians Key Features Incorporates numerous graphical representations in the form of well labelled diagrams Presents a balanced approach with the help of worked out examples algorithms definitions and remarks Comprises chapter end exercises to judge students comprehension of the subject

Graph Theory Reinhard Diestel, 2017-06-30 This standard textbook of modern graph theory now in its fifth edition combines the authority of a classic with the engaging freshness of style that is the hallmark of active mathematics It covers the core material of the subject with concise yet reliably complete proofs while offering glimpses of more advanced methods in each field by one or two deeper results again with proofs given in full detail The book can be used as a reliable text for an introductory course as a graduate text and for self study From the reviews This outstanding book cannot be substituted with any other book on the present textbook market It has every chance of becoming the standard textbook for graph theory Acta Scientiarum Mathematicarum Deep clear wonderful This is a serious book about the heart of graph theory It has depth and integrity Persi Diaconis Ron Graham SIAM Review The book has received a very enthusiastic reception which it amply deserves A masterly elucidation of modern graph theory Bulletin of the Institute of Combinatorics and its Applications Succeeds dramatically a hell of a good book MAA Reviews A highlight of the book is what is by far the best account in print of the Seymour Robertson theory of graph minors Mathematika like listening to someone explain mathematics Bulletin of the AMS

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