

A First Course In Graph Theory Dover Publications

A Beginner's Guide to Graph Theory
Contemporary Methods in Graph Theory
Graph Theory
A First Course in Graph Theory and Combinatorics
Graph Theory with Applications
Advances in Graph Theory
Recent Advancements in Graph Theory
The Fascinating World of Graph Theory
Graph Theory, 1736-1936
Examples and Counterexamples in Graph Theory
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Some Topics in Graph Theory
Line Graphs and Line Digraphs
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Topics in Graph Theory
Distance In Graphs
A First Course in Graph Theory
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Pearls in Graph Theory
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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

designed for the non specialist this classic text by a world expert is an invaluable reference tool for those interested in a basic understanding of the subject exercises notes and exhaustive references follow each chapter making it outstanding both as a text and reference for students and researchers in graph theory and its applications the author approaches the subject with a lively writing style the reader will delight to discover that the topics in this book are coherently unified and include some of the deepest and most beautiful developments in graph theory

the concept of a graph is fundamental in mathematics since it conveniently encodes diverse relations and facilitates combinatorial analysis of many complicated counting problems in this book the authors have traced the origins of graph theory from its humble beginnings of recreational mathematics to its modern setting for modeling communication networks as is evidenced by the world wide graph used by many internet search engines this book is an introduction to graph theory and combinatorial analysis it is based on courses given by the second author at queen s university at kingston ontario canada between 2002 and 2008 the courses were aimed at students in their final year of their undergraduate program

over 1500 problems are used to illustrate concepts related to different topics and introduce applications over 1000 exercises in the text with many different types of questions posed precise mathematical language is used without excessive formalism and abstraction care has been taken to balance the mix of notation and words in mathematical statements problem sets are stated clearly and unambiguously and all are carefully graded for various levels of difficulty this text has been carefully designed for flexible use

graph theory is a branch of discrete mathematics it has many applications to many different areas of science and engineering this book provides the most up to date research findings and applications in graph theory this book focuses on the latest research in graph theory it provides recent findings that are occurring in the field offers insights on an international and transnational levels identifies the gaps in the results and includes forthcoming international studies and research along with its applications in networking computer science chemistry and biological sciences etc the book is written with researchers and post graduate students in mind

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

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 maziar 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

for junior to senior level courses in graph theory taken by majors in mathematics computer science or engineering or for beginning level graduate courses once considered an unimportant branch of topology graph theory has come into its own through many important contributions to a wide range of fields and is now one of the fastest growing areas in discrete mathematics and computer science this new text introduces basic concepts definitions theorems and examples from graph theory the authors present a collection of interesting results from mathematics that involve key concepts and proof techniques cover design and analysis of computer algorithms for solving problems in graph theory and discuss applications of graph theory to the sciences it is mathematically rigorous but also practical intuitive and algorithmic

this book provides a rapid introduction to topics in graph theory typically covered in a graduate course the author sets out the main recent results in several areas of current research in graph theory topics covered include edge colourings symmetries of graphs packing of graphs and computational complexity professor yap is able to lead the reader to the forefront of research and to describe some of the open problems in the field the

choice of material presented has arisen from courses given at the national university of singapore and each chapter contains numerous examples and exercises for the reader

in the present era dominated by computers graph theory has come into its own as an area of mathematics prominent for both its theory and its applications one of the richest and most studied types of graph structures is that of the line graph where the focus is more on the edges of a graph than on the vertices a subject worthy of exploration in itself line graphs are closely connected to other areas of mathematics and computer science this book is unique in its extensive coverage of many areas of graph theory applicable to line graphs the book has three parts part i covers line graphs and their properties while part ii looks at features that apply specifically to directed graphs and part iii presents generalizations and variations of both line graphs and line digraphs line graphs and line digraphs is the first comprehensive monograph on the topic with minimal prerequisites the book is accessible to most mathematicians and computer scientists who have had an introduction graph theory and will be a valuable reference for researchers working in graph theory and related fields

this second volume in a two volume series provides an extensive collection of conjectures and open problems in graph theory it is designed for both graduate students and established researchers in discrete mathematics who are searching for research ideas and references each chapter provides more than a simple collection of results on a particular topic it captures the reader s interest with techniques that worked and failed in attempting to solve particular conjectures the history and origins of specific conjectures and the methods of researching them are also included throughout this volume students and researchers can discover how the conjectures have evolved and the various approaches that have been used in an attempt to solve them an annotated glossary of nearly 300 graph theory parameters 70 conjectures and over 600 references is also included in this volume this glossary provides an understanding of parameters beyond their definitions and enables readers to discover new ideas and new definitions in graph theory the editors were inspired to create this series of volumes by the popular and well attended special sessions entitled my favorite graph theory conjectures which they organized at past ams meetings these sessions were held at the winter ams maa joint meeting in boston january 2012 the siam conference on discrete mathematics in halifax in june 2012 as well as the winter ams maa joint meeting in baltimore in january 2014 at which many of the best known graph theorists spoke in an effort to aid in the creation and dissemination of conjectures and open problems which is crucial to the growth and development of this field the editors invited these speakers as well as other experts in graph theory to contribute to this series

from specialists in the field you will learn about interesting connections and recent developments in the field of graph theory by looking in particular at cartesian products arguably the most important of the four standard graph products many new results in

this area appear for the first time in print in this book written in an accessible way

written by two prominent figures in the field this comprehensive text provides a remarkably student friendly approach its sound yet accessible treatment emphasizes the history of graph theory and offers unique examples and lucid proofs 2004 edition

this book is prepared as a combination of the manuscripts submitted by respected mathematicians and scientists around the world as an editor i truly enjoyed reading each manuscript not only will the methods and explanations help you to understand more about graph theory but i also hope you will find it joyful to discover ways that you can apply graph theory in your scientific field i believe the book can be read from the beginning to the end at once however the book can also be used as a reference guide in order to turn back to it when it is needed i have to mention that this book assumes the reader to have a basic knowledge about graph theory the very basics of the theory and terms are not explained at the beginner level i hope this book will support many applied and research scientists from different scientific fields

a natural way to learn some of the essential ideas of graph theory from first principles

improved by more than a dozen new exercises an augmented section on labeling the simplification of many proofs and corrections suggested by classroom users and reviewers this delightful text on graph theory retains and strengthens the appealing features of the original edition it is an innovative and stimulating view of mathematics designed to appeal to teachers and students alike pearls in graph theory is based on twenty years of teaching by the leading researcher in graph theory unlike most texts on graph theory this book is written in an informal style suitable for students in a variety of disciplines though mathematics majors will find the material of sufficient depth and challenge covering major topics and theorems in graph theory the text provides students with a solid foundation while keeping the material enjoyably accessible and entertaining this course typically draws 50 to 70 students per year at the university of california san diego the concrete nature of the topics as well as the broad coverage of the field allow the book to be used for a survey course at smaller schools with no undergraduate courses in graph theory the only requirement is some mathematical maturity about the level attained by a successful calculus student

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Introduction

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