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Modern Graph Theory: 184 (Graduate Texts in Mathematics) Bela Bollobas. 5.0 out of 5 stars

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Nov 19, 2019; 2 min read

Graph Theory (Graduate Texts In Mathematics) Reinhard Diestel  
Graduate Texts in Mathematics (GTM) (ISSN 0072-5285) is a series of graduate-level textbooks in mathematics published by Springer-Verlag. The books in this series, like the other Springer-Verlag mathematics series, are yellow books of a standard size (with variable numbers of pages). The GTM series is easily identified by a white band at the top of the book. The books in this series tend to be written at a more advanced level than the similar Undergraduate Texts in Mathematics series, although t

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Bela Bollobas has the rare gift of having both deep mathematical insights, and the ability to eloquently communicate them in a way that is accessible to the average graduate student. In his book "Modern Graph Theory", Bollobas covers just about every exciting area of the subject, and does so in an up-to-date fashion that gives the reader a big picture of each sub-area of the field.

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Buy Algebraic Graph Theory (Graduate Texts in Mathematics) 2001 by Godsil, Chris (ISBN: 9780387952208) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

An in-depth account of graph theory, written for serious students of mathematics and computer science. It reflects the current state of the subject and emphasises connections with other branches of pure mathematics. Recognising that graph theory is one of several courses competing for the attention of a student, the book contains extensive descriptive passages designed to convey the flavour of the subject and to arouse interest. In addition to a modern treatment of the classical areas of graph theory, the book presents a detailed account of newer topics, including Szemerédi's Regularity Lemma and its use, Shelah's extension of the Hales-Jewett Theorem, the precise nature of the phase transition in a random graph process, the connection between electrical networks and random walks on graphs, and the Tutte polynomial and its cousins in knot theory. Moreover, the book contains over 600 well thought-out exercises: although some are straightforward, most are substantial, and some will stretch even the most able reader.

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



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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*

The Cambridge Graph Theory Conference, held at Trinity College from 11 to 13 March 1981, brought together top ranking workers from diverse areas of the subject. The papers presented were by invitation only. This volume contains most of the contniutions, suitably refereed and revised. For many years now, graph theory has been developing at a great pace and in many directions. In order to emphasize the variety of questions and to preserve the

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freshness of research, the theme of the meeting was not restricted. Consequently, the papers in this volume deal with many aspects of graph theory, including colouring, connectivity, cycles, Ramsey theory, random graphs, flows, simplicial decompositions and directed graphs. A number of other papers are concerned with related areas, including hypergraphs, designs, algorithms, games and social models. This wealth of topics should enhance the attractiveness of the volume.

This book presents and illustrates the main tools and ideas of algebraic graph theory, with a primary emphasis on current rather than classical topics. It is designed to offer self-contained treatment of the topic, with strong emphasis on concrete examples.

Professionelle elektronische Ausgabe erhältlich direkt bei <http://diestel-graph-theory.com/german/Profi.html> Detailliert und klar, sowie stets mit Blick auf das Wesentliche, führt dieses Buch in die Graphentheorie ein. Zu jedem Themenkomplex stellt es sorgfältig die Grundlagen dar und beweist dann ein oder zwei tiefere typische Sätze, oftmals ergänzt durch eine informelle Diskussion ihrer tragenden Ideen. Es vermittelt so exemplarisch die wichtigsten Methoden der heutigen Graphentheorie, einschließlich moderner Techniken wie Regularitätslemma, Zufallsgraphen, Baumzerlegungen und Minoren. Aus den Besprechungen: "Eine hervorragende und mit größter Sorgfalt geschriebene Einführung in die moderne Graphentheorie, die sich in den Kanon der prägenden Lehrbücher einreihen wird. Vorbehaltlos zu empfehlen. " DMV-Jahresbericht "Ein Höhepunkt ist das Kapitel zur Minorentheorie von Robertson und Seymour: mit Abstand die beste in der Literatur zu

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The ever-expanding field of extremal graph theory encompasses a diverse array of problem-solving methods, including applications to economics, computer science, and optimization theory. This volume, based on a series of lectures delivered to graduate students at the University of Cambridge, presents a concise yet comprehensive treatment of extremal graph theory. Unlike most graph theory treatises, this text features complete proofs for almost all of its results. Further insights into theory are provided by the numerous exercises of varying degrees of difficulty that accompany each chapter. Although geared toward mathematicians and research students, much of Extremal Graph Theory is accessible even to undergraduate students of mathematics. Pure mathematicians will find this text a valuable resource in terms of its unusually large collection of results and proofs, and professionals in other fields with an interest in the applications of graph theory will also appreciate its precision and scope.

This book is a concise - yet most carefully written - introduction to modern graph theory, covering all its major recent developments. It can be used both as a reliable textbook for an introductory course and as a graduate text: on each topic it covers all the basic material in full detail, and adds one or two deeper results (again with detailed proofs) to illustrate the

more advanced methods of that field.

The primary aim of this book is to present a coherent introduction to graph theory, suitable as a textbook for advanced undergraduate and beginning graduate students in mathematics and computer science. It provides a systematic treatment of the theory of graphs without sacrificing its intuitive and aesthetic appeal. Commonly used proof techniques are described and illustrated. The book also serves as an introduction to research in graph theory.

A Course on the Web Graph provides a comprehensive introduction to state-of-the-art research on the applications of graph theory to real-world networks such as the web graph. It is the first mathematically rigorous textbook discussing both models of the web graph and algorithms for searching the web. After introducing key tools required for the study of web graph mathematics, an overview is given of the most widely studied models for the web graph. A discussion of popular web search algorithms, e.g. PageRank, is followed by additional topics, such as applications of infinite graph theory to the web graph, spectral properties of power law graphs, domination in the web graph, and the spread of viruses in networks. The book is based on a graduate course taught at the AARMS 2006 Summer School at Dalhousie University. As such it is self-contained and includes over 100 exercises. The reader of the book will gain a working knowledge of current research in graph theory and its modern applications. In addition, the reader will learn first-hand about models of the web, and the mathematics underlying modern search engines.

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