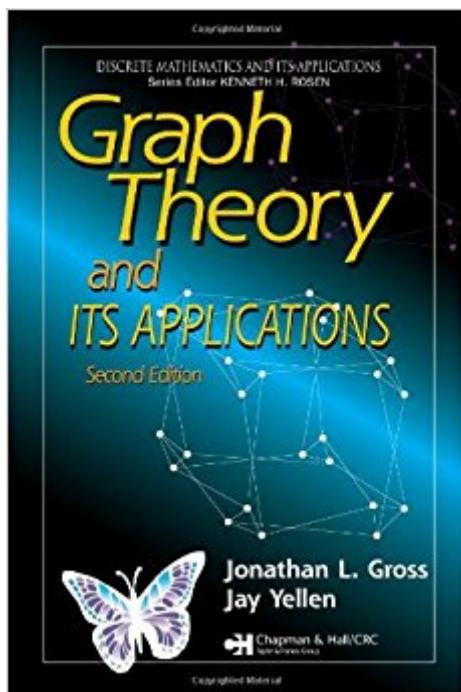


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# Graph Theory And Its Applications, Second Edition (Textbooks In Mathematics)



## Synopsis

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.

## Book Information

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## Customer Reviews

"an excellent vehicle for either a class text or a self-study reference. The writing is clear highly recommended most suitable for an advanced undergraduate in either engineering or computer science." -Journal of Mathematical Psychology "I will recommend this book as a text for the next time we teach our graph theory course this is a well- written book. The authors have done a good job." - -Computing Reviews

For a general introduction to graph theory models and applications this book is hard to beat. The topics are arranged very systematically and the author breaks down the topics into reasonable sizes to prevent reader overload. This book is NOT geared to those seeking an advanced graduate level mathematical treatments of graph theory or highly detailed proofs. The book "Graph Theory" by Diestel would better serve the interests of those seeking a more mathematically detailed approach. This work by Gross, however, provides an excellent resource for the undergraduate to early graduate level discussion of graph theory and relevant applications.

Is it an intro to algorithms book, an undergrad graph theory text, or an into-level grad text? The book itself does not know as it tries to be all these things at once. Don't get me wrong, the coverage of many various Graph Theory topics is very thorough, but it seems to jump around from theory to application to much. One minute you seem to be reading a fairly detailed proof, and the next the book wants you to break out your favourite IDE and write a program, and then put on a hard-hat and pretend to be a structural engineer, all on the same page! While I think it's perfectly fine to include many applications in a book on a mathematical field full of them, I do have to wonder why the authors didn't seem to organise and mark said sections better. As such, the book is 779 pages long, and reads like it was put together in one evening over a bottle of scotch! The only reason I give it 4 stars is because of its thoroughness on the topic at hand.

I am very much interested in Graph Theory, but I tried a lot to find the right book. Fortunately, I got this book and is amazing. It covers a wide range of concepts with the clear explanations and examples. The best method to use this book is read line by line and don't proceed further if you stuck on a particular concept. Solve all the exercise problems of each section before moving to the next one.-----Quality of the book - excellent covers wide range of concepts excellent examples and very good explanations-----Good Luck!Reddy

The book covers quite a vast field, its ambition being to give a thorough overview of all of modern graph theory. The authors succeed in doing this, although a weakness of the book is their very frequent omission of proofs for important theorems: minus one star. (And I have found at least one exercise, #6.4.3, for which the answer given is plainly wrong.) I subtracted one more star for the horrible physical quality of the book. First, the pages - all 770+ of them - have been cut in a way as to make them virtually bulge out from under the cardboard covers. Second, and worse, the binding, in spite of the book being formally a hardcover, is horrible: it squeaks every time one opens the book, and due to the flimsy materials (glue!) used for keeping the pages together, this work is more of a glorified pocket book. I fear it will not live long if used frequently.

A very good book for engineering and computer science centric, self-contained treatise of graph theory (as opposed to numerous textbooks or monographs more suitable for students of mathematics). I've used this text in my applied graph theory special topics (computer science) course, and intend to keep using it in the foreseeable offerings of the course. The book contains plenty of examples and exercises, and nicely balances sufficient mathematical rigor with algorithmic/computational aspects and various applications. I recommend this book to computer science, electrical engineering, operations research graduate students as well as practitioners; I also recommend it, perhaps as a supplementary source, to those discrete math students and researchers who have interests in implementing graph algorithms and/or studying various applications of graph theory.

This is a great and comprehensive book on graph theory. The book can also serve as a reference. It is well-written, clear and precise. Almost everything that a student or practitioner need to know about graphs is likely to be found here. However the book is best appreciated by someone who has studied some graph theory. A beginner would benefit more by looking at more elementary books such as *Graphs and Applications* by Wilson.

Reads like a dictionary, each page is nothing more than bullet points that alternate between definitions and corollaries. Proofs are typically very short: explained and illustrated in no more than a quarter of a page. More appropriate as a reference manual than a textbook for a class.

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