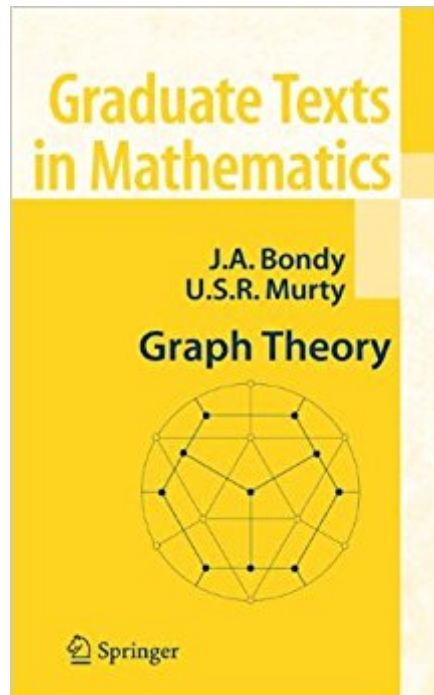




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Graph Theory (Graduate Texts In Mathematics)



Synopsis

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.

Book Information

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Average Customer Review: 4.7 out of 5 stars [See all reviews](#) (7 customer reviews)

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Customer Reviews

Regardless some background topics are not covered, I see NO LACK of mathematical strictness, but authors use many didactic tools to reaffirm readers understanding --expand topics on appendices many drawings, many examples, and exercises on the end of each topic. Mathematical notation is used in the way it is needed, to grant it will not confuse reader, a post-appendix topic is reserved to explain mathematical notation, it includes general mathematical notation, structures, operations and relations, graph parameters, family of graph, and others. As the book series indicates, it is targeted to those whose are mathematical ripe to understand theorems and its proofs. Its references includes great papers and academic works. Asserting their authority in Graph Theory, pay attention to authors mentors: Claude Berge, Paul Erdős, and Bill Tutte. I used this book a year from the library, and I'm buying it. An introductory course could safely use it, combined with "Graph Theory: Exercises book" (Lovasz), and "Algebraic Graph Theory" (Godsil & Royle).

This book is great for those ones that are unfamiliar with graph theory, since it builds everything up from basic concepts. However, some of the exercise sets are design to challenge even advance students

I don't think there's anything bad to say about the GTM series. Essential for any CompSci theory student! Goes through some basic proof techniques for those that might be a little weak in proofs, but quickly delves into more advanced material.

I enjoyed this book, and often reference it in my algebraic graph theory conquests. Make sure if you are reading this book for reasons other than a class, that you work through some of the titled exercises, where they establish a great deal of notation and definitions. Otherwise, its not too bad.

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