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Graph Theory (Graduate Texts In Mathematics)

Graduate Texts in Mathematics

Reinhard Diestel

Graph Theory

Third Edition

Springer
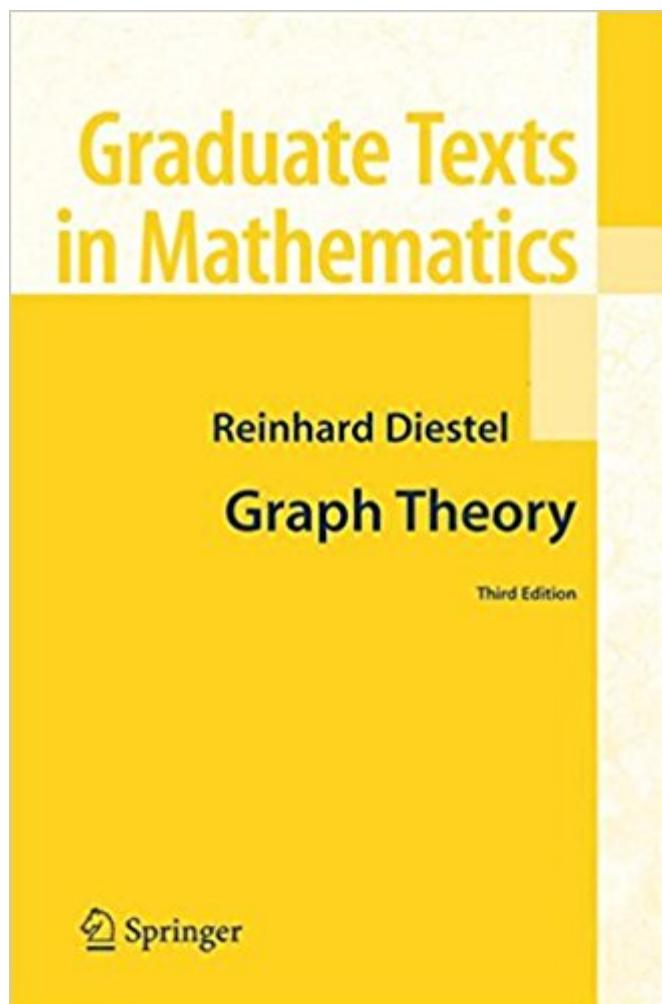
Synopsis

The third edition of this standard textbook of modern graph theory has been carefully revised, updated, and substantially extended. Covering all its major recent developments, Graph Theory 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.

Book Information

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Customer Reviews

Graph Theory is a very well-written book, now in its third edition and the recipient of the according evolutionary benefits. It succeeds dramatically in its aims, which Diestel gives as "[providing] a reliable first introduction to graph theory that can be used for personal study or as a course text, [and] a graduate text that offers some depth in selected areas." ... Even the pictures and drawings are nice. This is a hell of a good book! MAA, Reviews

I got a C in the course. So..it sucks. I'm sure it has some good resale value though.

This is an excellent book, but if you are looking for an introductory book with examples you should look elsewhere, like the book by Gary Chartrand:Introductory Graph Theory.The definitions are very concise and not always visual, so you might have to take a pencil and paper as you go through this

book and try todraw a picture corresponding to what has been written.Still, there is a lot of material here, thanks to the concision, and for a graduate student it's hard to think of a better introduction.

If you want a look at the contents, the author also offers a full, free electronic edition of this book from his website. Seach for "Graph Theory Diestel" and his pages will come up. You are not able to print the free electronic edition, but you can save it for offline reading.I love this book. I purchased the print version after reading the electronic edition.

Not a book that you can really judge well on one reading:study is necessary.The author presents the diagrams and proofs well.He covers the main topics in graph theory:"Matching,""Connectivity,""Planar Graphs,""Coloring,""Flows"Ramsey Theory for Graphs,""Hamilton Cycles,""Random Graphs,""Minors, Trees and Well-Quasi-Ordering."and Infinite graphs.It is a text for graduate school topology in which the theory of graphsis covered in detail.I could wish for more on Ramsey theory,but the author's are the only graph diagrams in that area that I've found.

I bought this book because my Graph Theory teacher recommended us to read it. It is very complete and it explains very well the subject.

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