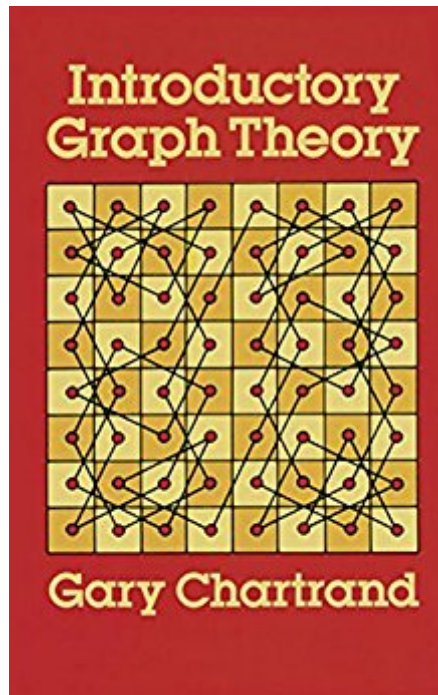




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# Introductory Graph Theory (Dover Books On Mathematics)



## Synopsis

Graph theory is used today in the physical sciences, social sciences, computer science, and other areas. Introductory Graph Theory presents a nontechnical introduction to this exciting field in a clear, lively, and informative style. Author Gary Chartrand covers the important elementary topics of graph theory and its applications. In addition, he presents a large variety of proofs designed to strengthen mathematical techniques and offers challenging opportunities to have fun with mathematics. Ten major topics — profusely illustrated — include: Mathematical Models, Elementary Concepts of Graph Theory, Transportation Problems, Connection Problems, Party Problems, Digraphs and Mathematical Models, Games and Puzzles, Graphs and Social Psychology, Planar Graphs and Coloring Problems, and Graphs and Other Mathematics. A useful Appendix covers Sets, Relations, Functions, and Proofs, and a section devoted to exercises — with answers, hints, and solutions — is especially valuable to anyone encountering graph theory for the first time. Undergraduate mathematics students at every level, puzzlists, and mathematical hobbyists will find well-organized coverage of the fundamentals of graph theory in this highly readable and thoroughly enjoyable book.

## Book Information

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## Customer Reviews

I work with bioinformatic systems and wanted a book that would cover graph theory. This book focuses mostly on algorithms and pure mathematics of graph systems, rather than things like shortest-path and other less number-driven algorithms. However it works very well as a reference book, each chapter title is what is covered. It also reads like an old fashioned school textbook, with problems to work on. Some are useful and many are redundant. However for a quick look reference book it works very well. I purchased the kindle version.

This one of the very best books available in Graph Theory ... Concepts are described very clearly, the math presented is very accessible and the examples given are excellent and real life

This book is great for a course in topics in graph theory. It gives some theory followed by applications. It requires some mathematical maturity since some of the exercises require proofs. I would recommend this book for junior and senior undergraduates, and perhaps some graduate students who need graph theory.

This book is an excellent introduction to graph theory. Many examples on how graph theory is used to solve problems in the real world. The author's writing style is clear and easy to digest. Armed with an understanding of graph theory, it become easier to comprehend the bigger picture of problems that can be modeled using graphs.

A pleasant introduction to the subject, easy to read, covers many topics but won't get into too much depth. The author adds a touch of humour to some of the exercises, which is nice, and at the end you'll find answers to many of them.

I found this book to be well written and very interesting because it presents information coupled with immediate problems and suggested solutions (to selected problems) that prove to be quite stimulating.

This solid book covers all of the basics and provides enough theorems and lemmas to satisfy the theoretical foundations of this topic. I would call this book a good preparatory work for students in a

masters program prior to taking graph theory. The overview that it provides is both easy to understand and approachable to many levels including undergrad. Also, if you are a programmer, it is good for theories of A\* pathing and networking.

I got the Kindle edition of this book. It was nice to use because I could highlight and easily find certain things. This book was interesting and some of the problems were actually fun to solve!

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