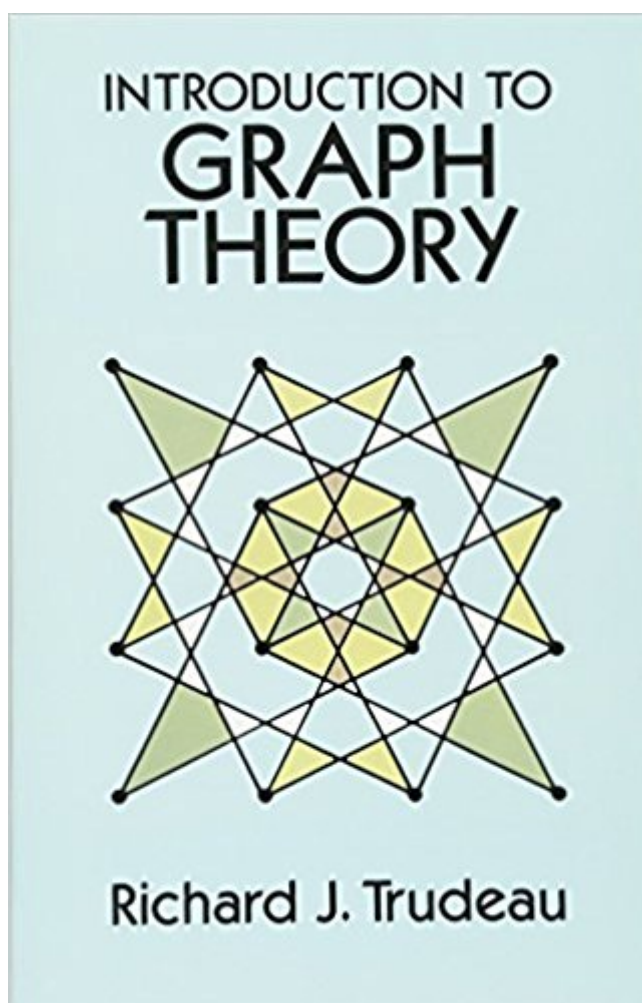


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# Introduction To Graph Theory (Dover Books On Mathematics)



## Synopsis

A stimulating excursion into pure mathematics aimed at "the mathematically traumatized," but great fun for mathematical hobbyists and serious mathematicians as well. Requiring only high school algebra as mathematical background, the book leads the reader from simple graphs through planar graphs, Euler's formula, Platonic graphs, coloring, the genus of a graph, Euler walks, Hamilton walks, and a discussion of The Seven Bridges of Königsberg. Exercises are included at the end of each chapter. "The topics are so well motivated, the exposition so lucid and delightful, that the book's appeal should be virtually universal . . . Every library should have several copies" *Choice*. 1976 edition.

## Book Information

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## Customer Reviews

Classic text. Excellent and gentle introduction to network theory. It is as challenging and rigorous as you want to make it. Read it for enjoyment and understanding. Tackle the exercises for the challenge. I highly recommend it as foundational for any new student of graphs and networks, especially prior to tackling a modern MOOC on this subject.

This text was a great stepping stone in my hobby exploration of mathematics especially topology. In addition to the hobby appeal of graph theory I found myself applying the concepts in my day job almost immediately. I will say that with this and all the Dover books there is some trouble with

mathematical symbols show up correctly on the Kindle for Android app and even on the Kindle.

A very good introduction to the field. Easy to fall into with an excellent progression to the more complex. I gained quite a bit of insight, and found this book enabled me to conceive of applications in disciplines such as Gene sequencing, and the Stock MARKET. A necessary read for Quants.

Dover has put a great number of short introductory books on scientific topics, and I have generally found them to be excellent. They are concise, on point, and informative. This book is no exception. The writing is light. Explanations are clear. It serves up a wonderful introduction to the subject by explaining the basic terms and theorems. Though it is well short of being a rigorously formal book, it gives a good sense of the subject area, and I was actually able to make almost immediate practical use of its material (figuring out whether a circuit I was designing could fit onto a single-sided board).

At only \$4, this is probably the best, beginner-friendly introduction to graph theory you can get. I've assisted in a mathematics summer program for gifted high school students. I've recommend this book to them. They loved it. The subject is approachable and clearly discusses the concepts behind the mathematics. This book can act as a very good introduction to combinatorial/algebraic topology. Interestingly, Hamiltonian and Eulerian walks is treated at the end of the text instead of the beginning. Everything is very readable.

Very nice introduction. Prose is excellent. This book can be used to teach high school students graph theory and college students scientific writing.

The topic was new to me, the material developed in a fairly logical manner, not boring but the mathematics does get demanding at points. The author notes this and encourages continued reading. I agree. Actually the material covered is wider than graph theory. The text ought to be accessible to math enthusiasts in high school.

So approachable! Not many math textbooks lend themselves well to being used as light reading material (full disclosure: I am a mathematics major so my definition of light reading material may differ from yours). Does not require formal exposure to pure mathematics, just an interest in the topic and a general understanding of logical reasoning.

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