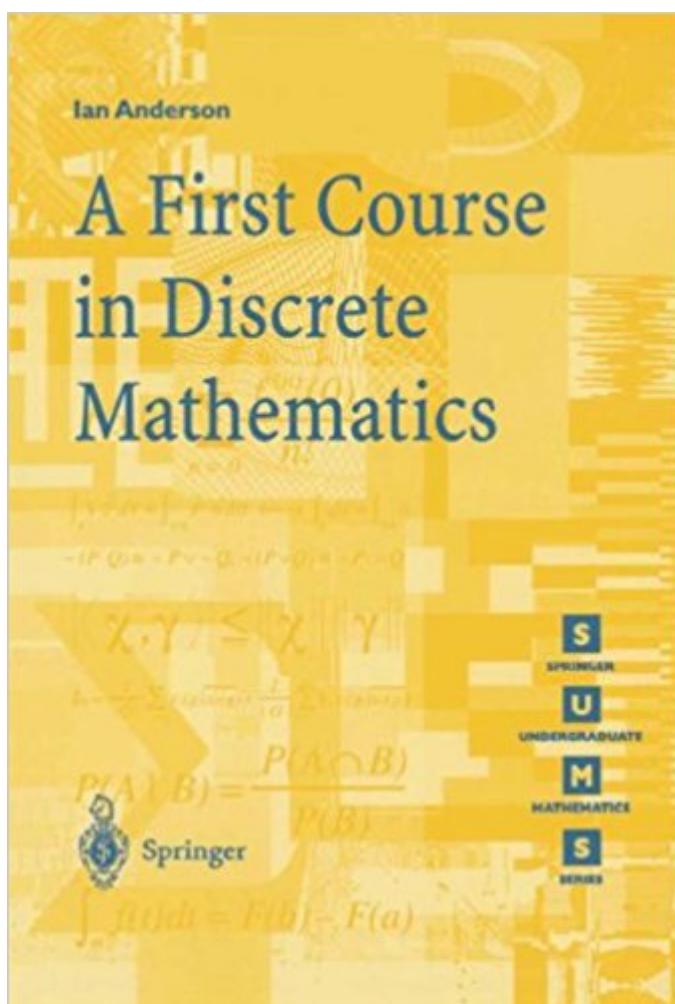


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# A First Course In Discrete Mathematics (Springer Undergraduate Mathematics Series)



## Synopsis

Drawing on many years' experience of teaching discrete mathematics to students of all levels, Anderson introduces such aspects as enumeration, graph theory and configurations or arrangements. Starting with an introduction to counting and related problems, he moves on to the basic ideas of graph theory with particular emphasis on trees and planar graphs. He describes the inclusion-exclusion principle followed by partitions of sets which in turn leads to a study of Stirling and Bell numbers. Then follows a treatment of Hamiltonian cycles, Eulerian circuits in graphs, and Latin squares as well as proof of Hall's theorem. He concludes with the constructions of schedules and a brief introduction to block designs. Each chapter is backed by a number of examples, with straightforward applications of ideas and more challenging problems.

## Book Information

Series: Springer Undergraduate Mathematics Series

Paperback: 200 pages

Publisher: Springer; 2002 edition (December 12, 2000)

Language: English

ISBN-10: 1852332360

ISBN-13: 978-1852332365

Product Dimensions: 6.1 x 0.5 x 9.2 inches

Shipping Weight: 13.4 ounces (View shipping rates and policies)

Average Customer Review: 1.0 out of 5 stars 1 customer review

Best Sellers Rank: #285,863 in Books (See Top 100 in Books) #46 in Books > Science & Math > Mathematics > Pure Mathematics > Combinatorics #71 in Books > Science & Math > Mathematics > Reference #112 in Books > Science & Math > Mathematics > Pure Mathematics > Discrete Mathematics

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Drawing on many years' experience of teaching discrete mathematics to students of all levels, Anderson introduces such aspects as enumeration, graph theory and configurations or arrangements. Starting with an introduction to counting and related problems, he moves on to the basic ideas of graph theory with particular emphasis on trees and planar graphs. He describes the inclusion-exclusion principle followed by partitions of sets which in turn leads to a study of Stirling and Bell numbers. Then follows a treatment of Hamiltonian cycles, Eulerian circuits in graphs, and Latin squares as well as proof of Hall's theorem. He concludes with the constructions of schedules

and a brief introduction to block designs. Each chapter is backed by a number of examples, with straightforward applications of ideas and more challenging problems.

I have no idea why this would be a good book to start off with when learning Discrete Mathematics. It's hard to understand and I actually had to buy another book to explain this one. My tutors hardly knew how to dissect it and instead helped me by accessing online materials. If you can, stay away from this book. I'm assuming though that like me, you had to buy it because it was required for a class.

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