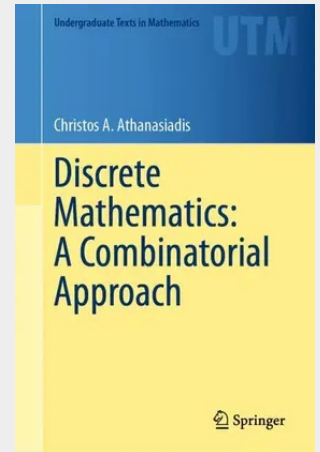


Discrete Mathematics: A Combinatorial Approach

This undergraduate text is designed for a single-semester introductory course in discrete mathematics. It is aimed at students of mathematics and computer science, as well as problem-solving enthusiasts or anyone with some familiarity with proofs seeking a concise introduction to the subject. The primary goal is to acquaint readers with key structures and ideas in combinatorial and discrete mathematics that will support further study in mathematics and its applications.

Requiring minimal prerequisites, the book seeks to build appreciation while offering a clear foundation for developing combinatorial reasoning. Special attention is given to the basics of enumeration and generating functions. Background concepts are presented accessibly, and examples appear early and frequently. When suitable, multiple proofs are provided for the same result, offering insight into mathematical thinking and the interconnectedness of ideas. Each chapter concludes with a selection of exercises spanning a wide range of difficulty, and a collection of hints and solutions is included at the end of the book.

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64,19 €

59,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783032142894

Medium: Buch

ISBN: 978-3-032-14289-4

Verlag: Springer

Erscheinungstermin: 17.02.2026

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2026

Serie: Undergraduate Texts in Mathematics

Produktform: Gebunden

Gewicht: 680 g

Seiten: 329

Format (B x H): 160 x 241 mm

