Enumerative Combinatorics, Volume 1

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出版者:Cambridge University Press

出版时间:2000-05

装帧:Paperback

isbn:9780521663519

This book is the first of a two-volume basic introduction to enumerative combinatorics at a level suitable for graduate students and research mathematicians. It concentrates on the theory and application of generating functions, a fundamental tool in enumerative combinatorics. The book covers those parts of enumerative combinatorics of greatest applicability to other areas of mathematics. The four chapters are devoted to an introduction to enumeration (suitable for advanced undergraduates), sieve methods (including the Principle of Inclusion-Exclusion), partially ordered sets, and rational generating functions. There are a large number of exercises, almost all with solutions, which greatly augment the text and provide entry into many areas not covered directly. Graduate students and research mathematicians who wish to apply combinatorics to their work will find this an authoritative reference.

作者介绍:

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书评

这本书写得相当漂亮，内容非常全面而且包涵较新的成果，本人学过基本组合方面的书籍，认为最好的还是该书。亮点在于后面的习题，都很有挑战性而不是简单对正文内容的机械模仿式练习
每节后面的数学史方面的讲解也是很有意思的事情，让人不禁想起来了胡适对红楼梦的考据，这对...

学习组合数学的经典之作。当时俺的导师是Richard的学生，对这套书推崇备至，用作俺们的教材。非常值得拥有。

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