Introduction to Enumerative and Analytic Combinatorics, Second Edition (Discrete Mathematics and Its Applications)

By Miklos Bona
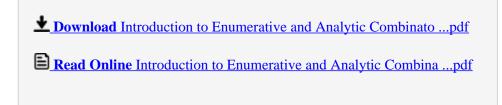
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Introduction to Enumerative and Analytic Combinatorics fills the gap between introductory texts in discrete mathematics and advanced graduate texts in enumerative combinatorics. The book first deals with basic counting principles, compositions and partitions, and generating functions. It then focuses on the structure of permutations, graph enumeration, and extremal combinatorics. Lastly, the text discusses supplemental topics, including error-correcting codes, properties of sequences, and magic squares.

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- Features a new chapter on analytic combinatorics and new sections on advanced applications of generating functions
- Demonstrates powerful techniques that do not require the residue theorem or complex integration
- Adds new exercises to all chapters, significantly extending coverage of the given topics

Introduction to Enumerative and Analytic Combinatorics, Second Edition makes combinatorics more accessible, increasing interest in this rapidly expanding field.

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