Combinatorial Theory

CLASSICS IN MATHEMATICS

Martin Aigner

Combinatorial Theory

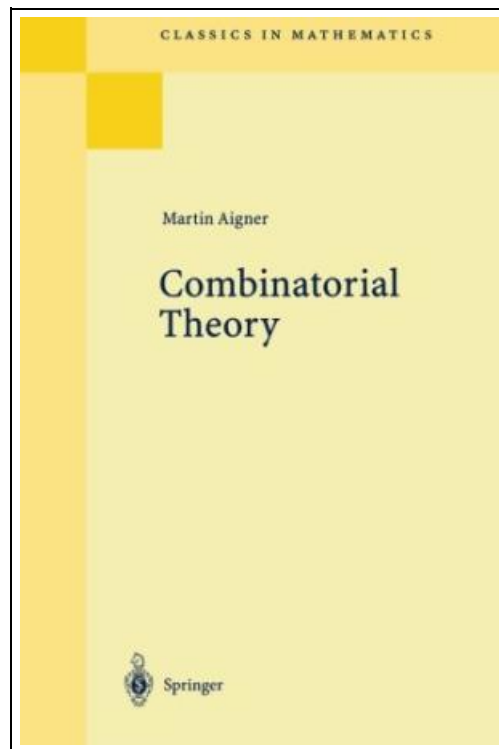Springer

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Reviews

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(Keshaun Daugherty)

COMBINATORIAL THEORY

Book Condition: New. Publisher/Verlag: Springer, Berlin | From the reviews:"This book presents a very good introduc- tion to combinatorics. It covers most aspects of enumeration and order theory, It is divided into three parts. The first part presents the basic material on mappings and po- sets. The second part deals with enumeration . Finally the third part treats of the order-theoretic aspects . In the text examples are given and at the end of each chapter valuable notes, also very good selected exercises. They con- stitute an organic part of the book. This book can warmly be recommended first of all to students interested in combina- torics. A two semester course can also be based on it."Publicationes Mathematicae Debrecen | Preliminaries.- 1. Sets.- 2. Graphs.- 3. Posets.- 4. Miscellaneous Notation.- I. Mappings.- 1. Classes of Mappings.- 2. Fundamental Orders.- 3. Permutations.- 4. Patterns.- Notes.- II. Lattices.- 1. Distributive Lattices.- 2. Modular and Semimodular Lattices.- 3. Geometric Lattices.- 4. The Fundamental Examples.- Notes.- III. Counting Functions.- 1. The Elementary Counting Coefficients.- 2. Recursion and Inversion.- 3. Binomial Sequences.- 4. Order Functions.- Notes.- IV. Incidence Function.- 1. The Incidence Algebra.- 2. Möbius Inversion.- 3. The Möbius Function.- 4. Valuations.- Notes.- V. Generating Functions.- 1. Ordered Structures.- 2. Unordered Structures.- 3. G-patterns.- 4. G, H-patterns.- Notes.- VI. Matroids: Introduction.- 1. Fundamental Concepts.- 2. Fundamental Examples.- 3. Construction of Matroids.- 4. Duality and Connectivity.- Notes.- VII. Matroids: Further Theory.- 1. Linear Matroids.- 2. Binary Matroids.- 3. Graphic Matroids.- 4. Transversal Matroids.- Notes.- VIII. Combinatorial Order Theory.- 1. Maximum-Minimum Theorems.- 2. Transversal Theorems.- 3. Sperner Theorems.- 4. Ramsey Theorems.- Notes.- List of Symbols. | Format: Paperback | Language/Sprache: english | 660 gr | 483 pp.

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