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Combinatorial Theory

By Aigner, Martin

Book Condition: New. Publisher/Verlag: Springer, Berlin | From the reviews: "This book presents a very good introduction 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 posets. 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 constitute an organic part of the book. This book can warmly be recommended first of all to students interested in combinatorics. A two semester course can also be based on it." Publications 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...



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