Solutions Manual to accompany Combinatorial Reasoning: An Introduction to the Art of Counting

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DESCRIPTION

COMBINATORIAL REASONING

Showcases the interdisciplinary aspects of combinatorics and illustrates how to problem solve with a multitude of exercises

Written by two well-known scholars in the field, *Combinatorial Reasoning: An Introduction to the Art of Counting* presents a clear and comprehensive introduction to the concepts and methodology of beginning combinatorics. Focusing on modern techniques and applications, the book develops a variety of effective approaches to solving counting problems.

Balancing abstract ideas with specific topical coverage, the book utilizes real-world examples with problems ranging from basic calculations that are designed to develop fundamental concepts to more challenging exercises that allow for a deeper exploration of complex combinatorial situations. Simple cases are treated first before moving on to general and more advanced cases. Additional features of the book include:

- Approximately 700 carefully structured problems designed for readers at multiple levels, many with hints and/or short answers
- Numerous examples that illustrate problem solving using both combinatorial reasoning and sophisticated algorithmic methods
- A novel approach to the study of recurrence sequences, which simplifies many proofs and calculations
- Concrete examples and diagrams interspersed throughout to further aid comprehension of abstract concepts
- A chapter-by-chapter review to clarify the most crucial concepts covered
Combinatorial Reasoning: An Introduction to the Art of Counting is an excellent textbook for upper-undergraduate and beginning graduate-level courses on introductory combinatorics and discrete mathematics.

ABOUT THE AUTHOR


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