



Discrete Mathematics, 7th Edition

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Pearson, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1 Sets and Logic1.1 Sets1.2 Propositions1.3 Conditional Propositions and Logical Equivalence1.4 Arguments and Rules of Inference1.5 Quantifiers1.6 Nested QuantifiersProblem-Solving Corner: Quantifiers2 Proofs2.1 Mathematical Systems, Direct Proofs, and Counterexamples2.2 More Methods of ProofProblem-Solving Corner: Proving Some Properties of Real Numbers2.3 Resolution Proofs2.4 Mathematical InductionProblem-Solving Corner: Mathematical Induction2.5 Strong Form of Induction and the Well-Ordering Property Notes Chapter Review Chapter Self-Test Computer Exercises3 Functions, Sequences, and Relations3.1 FunctionsProblem-Solving Corner: Functions3.2 Sequences and Strings3.3 Relations3.4 Equivalence RelationsProblem-Solving Corner: Equivalence Relations3.5 Matrices of Relations3.6 Relational Databases4 Algorithms4.1 Introduction4.2 Examples of Algorithms4.3 Analysis of AlgorithmsProblem-Solving Corner: Design and Analysis of an Algorithm4.4 Recursive Algorithms5 Introduction to Number Theory5.1 Divisors5.2 Representations of Integers and Integer Algorithms5.3 The Euclidean AlgorithmProblem-Solving Corner: Making Postage5.4 The RSA Public-Key Cryptosystem6 Counting Methods and the Pigeonhole Principle6.1 Basic PrinciplesProblem-Solving Corner: Counting6.2 Permutations and CombinationsProblem-Solving Corner: Combinations6.3 Generalized Permutations and Combinations6.4 Algorithms for Generating Permutations and Combinations6.5 Introduction to Discrete Probability6.6

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