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Fourth Edition

**Key Features of the
Fourth Edition:**

Now makes use of C++ and Java pseudocode, helping students understand complex algorithms.

A chapter on numerical algorithms includes a review of basic number theory, Euclid's Algorithm for finding the greatest common divisor; a review of modular arithmetic, an algorithm for solving modular linear equations, an algorithm for computing modular powers, and the new polynomial-time algorithm for determining whether a number is prime.

Contains numerous examples throughout, ensuring that students have a clear grasp of the complex algorithms being discussed.

A review of essential mathematical concepts is presented in three appendices.



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FOUNDATIONS OF
ALGORITHMS

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Naimipour



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Revised and updated, the *Fourth Edition* of **Foundations of Algorithms** continues to offer a well-balanced presentation of algorithm design, complexity of algorithms, and computational complexity. Perfect for mainstream computer science students with a background in college algebra and discrete structures, this edition presents mathematical concepts using lucid explanations and a simpler notation than is found in most texts. The authors reinforce key algorithmic explanations with numerous concrete examples to help students grasp theoretical concepts.



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