

COMPUTER SCIENCE AND APPLIED MATHEMATICS

# COMBINATORIAL ALGORITHMS

Second Edition



*For Computers  
and Calculators*

ALBERT NIJENHUIS  
HERBERT S. WILF

# Combinatorial Algorithms For Computers And Calculators

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## **Combinatorial Algorithms For Computers And Calculators:**

**Combinatorial Algorithms** Albert Nijenhuis, Herbert S. Wilf, 2014-05-10 Combinatorial Algorithms for Computers and Calculators Second Edition deals with combinatorial algorithms for computers and calculators Topics covered range from combinatorial families such as the random subset and  $k$  subset of an  $n$  set and Young tableaux to combinatorial structures including the cycle structure of a permutation and the spanning forest of a graph Newton forms of a polynomial and the composition of power series are also discussed Comprised of 30 chapters this volume begins with an introduction to combinatorial algorithms by considering the generation of all of the  $2^n$  subsets of the set  $1, 2, \dots, n$  The discussion then turns to the random subset and  $k$  subset of an  $n$  set next composition of  $n$  into  $k$  parts and random composition of  $n$  into  $k$  parts Subsequent chapters focus on sequencing ranking and selection algorithms in general combinatorial families renumbering rows and columns of an array the cycle structure of a permutation and the permanent function Sorting and network flows are also examined along with the backtrack method and triangular numbering in partially ordered sets This book will be of value to both students and specialists in the fields of applied mathematics and computer science

**Combinatorial Algorithms for Computers and Hand Calculators**, 1978 **Combinatorial Algorithms** Albert Nijenhuis, 1978 **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the demand for a new edition

**A Java Library of Graph Algorithms and Optimization** Hang T. Lau, 2007 Collecting some of the most popular graph algorithms and optimization procedures A Java Library of Graph Algorithms and Optimization provides the source code for a library of Java programs that can be used to solve problems in graph theory and combinatorial optimization Self contained and largely independent each topic starts with a problem description and an outline of the solution procedure followed by its parameter list specification source code and a test example that illustrates the usage of the code An accompanying CD ROM contains all of the Java code included in the book

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