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Wei-Tou Ni



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Modern Computer Algebra Joachim von zur Gathen, Jürgen Gerhard, 2013-04-25 Now in its third edition, this highly successful textbook is widely regarded as the bible of computer algebra. *Discrete Mathematics and Its Applications* Dr. R. Pushpalatha, Dr. Lalit Mohan Trivedi, Dr. Javid Iqbal, Dr. D. Srinivasa Rao, 2026-01-30 *Discrete Mathematics and Its Applications* introduces the fundamental mathematical structures and techniques used in computer science and engineering. The subject covers logic, set theory, relations, functions, combinatorics, graph theory, trees, and Boolean algebra. It emphasizes problem-solving methods, proof techniques, and mathematical reasoning essential for algorithm design and analysis. The course also explores applications in data structures, cryptography, network modeling, and digital systems. It provides a strong theoretical foundation for advanced studies in computer science, information technology, and related fields. **Concrete Abstractions** Wolfgang Schreiner, 2023-04-11 This book demonstrates how to formally model various mathematical domains, including algorithms operating in these domains, in a way that makes them amenable to a fully automatic analysis by computer software. The presented domains are typically investigated in discrete mathematics, logic, algebra, and computer science; they are modeled in a formal language based on first-order logic, which is sufficiently rich to express the core entities.

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One Hundred Years of General Relativity Wei-Tou Ni, 2017 The aim of this two volume title is to give a comprehensive review of one hundred years of development of general relativity and its scientific influences This unique title provides a broad introduction and review to the fascinating and profound subject of general relativity its historical development its important theoretical consequences gravitational wave detection and applications to astrophysics and cosmology The series focuses on five aspects of the theory Genesis Solutions and Energy Empirical Foundations Gravitational Waves Cosmology Quantum Gravity The first three topics are covered in Volume 1 and the remaining two are covered in Volume 2 While this is a two volume title it is designed so that each volume can be a stand alone reference volume for the related topic Page 4 of cover **Applications of Computer Algebra** Richard Pavelle, 2012-12-06 Today certain computer software systems exist which surpass the computational ability of researchers when their mathematical techniques are applied to many areas of science and engineering These computer systems can perform a large portion of the calculations seen in mathematical analysis Despite this massive power thousands of people use these systems as a routine resource for everyday calculations

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