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Título: The Concrete Tetrahedron

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Precio: \$1151.07

Editorial:

Año: 2011

Tema:

Edición: 1ª

Sinopsis

ISBN: 9783709104446

Presents concrete mathematics from a computer algebra perspective

Details concepts in an informal style: as simple as possible, as complicated as necessary

Includes motivating applications from combinatorics, computer science, number theory, special functions

The book treats four mathematical concepts which play a fundamental role in many different areas of mathematics: symbolic sums, recurrence (difference) equations, generating functions, and asymptotic estimates.

Their key features, in isolation or in combination, their mastery by paper and pencil or by computer programs, and their applications to problems in pure mathematics or to "real world problems" (e.g. the analysis of algorithms) are studied. The book is intended as an algorithmic supplement to the bestselling "Concrete Mathematics" by Graham, Knuth and Patashnik.

Content Level » Upper undergraduate

Keywords » asymptotics - formal power series - recurrence equations - symbolic computation - symbolic summation

Related subjects » Algebra - Number Theory and Discrete Mathematics