Buchmann / Vollmer

Binary Quadratic Forms

An Algorithmic Approach

The book deals with algorithmic problems related to binary quadratic forms. Written by a world leader in number theory, it is the only book focusing on the algorithmic aspects of the theory. It deals with problems such as finding the representations of an integer by a form with integer coefficients, finding the minimum of a form with real coefficients and deciding equivalence of two forms. In order to solve those problems, the book introduces the reader to important areas of number theory such as diophantine equations, reduction theory of quadratic forms, geometry of numbers and algebraic number theory. The book explains applications to cryptography. It requires only basic mathematical knowledge.

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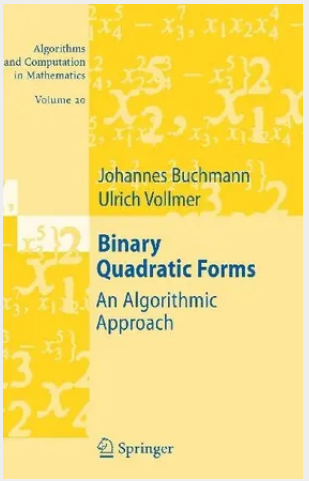

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