Computing the Continuous Discretely: Integer-Point Enumeration in Polyhedra

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Springer-Verlag New York Inc., United States, 2010. Paperback. Book Condition: New. 1st ed. Softcover of orig. ed. 2007. 229 x 152 mm. Language: English. Brand New Book ***** Print on Demand *****. This textbook illuminates the field of discrete mathematics with examples, theory, and applications of the discrete volume of a polytope. The authors have weaved a unifying thread through basic yet deep ideas in discrete geometry, combinatorics, and number theory. We encounter here a friendly invitation to the field of counting integer points in polytopes, and its various connections to elementary finite Fourier analysis, generating functions, the Frobenius coin-exchange problem, solid angles, magic squares, Dedekind sums, computational geometry, and more. With 250 exercises and open problems, the reader feels like an active participant.

Reviews

It is easy in read through easier to fully grasp. it had been written very completely and useful. I am pleased to let you know that here is the greatest book we have read during my personal life and could be he very best book for possibly.
-- Miss Marge Jerde

It is really an remarkable publication i actually have possibly study. It usually is not going to cost excessive. Its been written in an exceedingly basic way and is particularly only right after i finished reading this publication through which basically transformed me, affect the way i think.
-- Dr. Breana O’Kon