

1. Record Nr.	UNISA990003278540203316
Autore	YNDURAIN, F. J.
Titolo	Quantum chromodynamics : An introduction to the theory of quarks and gluons / F. J. Yndurain
Pubbl/distr/stampa	New York : Springer-Verlag, copyr. 1983
Edizione	[2 ed.]
Descrizione fisica	XI, 227 p. : ill. graf. ; 23 cm
Collana	Texts and monographs in physics ; 12
Disciplina	530.142
Soggetti	Cromodinamica quantistica
Collocazione	530 TMP (12)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910300255603321
Autore	Beck Matthias
Titolo	Computing the Continuous Discretely : Integer-Point Enumeration in Polyhedra // by Matthias Beck, Sinai Robins
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2015
ISBN	1-4939-2969-0
Edizione	[2nd ed. 2015.]
Descrizione fisica	1 online resource (XX, 285 p. 54 illus., 1 illus. in color.)
Collana	Undergraduate Texts in Mathematics, , 0172-6056
Disciplina	516.11
Soggetti	Combinatorial analysis Number theory Convex geometry Discrete geometry Computer science - Mathematics Combinatorics Number Theory Convex and Discrete Geometry Computational Science and Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (pages 267-277) and index.
Nota di contenuto	The Coin-Exchange Problem of Frobenius -- A Gallery of Discrete Volumes -- Counting Lattice Points in Polytopes: The Ehrhart Theory -- Reciprocity -- Face Numbers and the Dehn–Sommerville Relations in Ehrhartian Terms -- Magic Squares -- Finite Fourier Analysis -- Dedekind Sums -- Zonotopes -- $h$ -Polynomials and $h^*$ -Polynomials -- The Decomposition of a Polytope Into Its Cones -- Euler–Maclaurin Summation in $\mathbb{R}^d$ -- Solid Angles -- A Discrete Version of Green's Theorem Using Elliptic Functions.
Sommario/riassunto	This richly illustrated textbook explores the amazing interaction between combinatorics, geometry, number theory, and analysis which arises in the interplay between polyhedra and lattices. Highly accessible to advanced undergraduates, as well as beginning graduate students, this second edition is perfect for a capstone course, and adds two new chapters, many new exercises, and updated open problems. For

scientists, this text can be utilized as a self-contained tooling device. The topics include a friendly invitation to Ehrhart's theory of counting lattice points in polytopes, finite Fourier analysis, the Frobenius coin-exchange problem, Dedekind sums, solid angles, Euler–Maclaurin summation for polytopes, computational geometry, magic squares, zonotopes, and more. With more than 300 exercises and open research problems, the reader is an active participant, carried through diverse but tightly woven mathematical fields that are inspired by an innocently elementary question: What are the relationships between the continuous volume of a polytope and its discrete volume? Reviews of the first edition: “You owe it to yourself to pick up a copy of *Computing the Continuous Discretely* to read about a number of interesting problems in geometry, number theory, and combinatorics.” — MAA Reviews “The book is written as an accessible and engaging textbook, with many examples, historical notes, pithy quotes, commentary integrating the material, exercises, open problems and an extensive bibliography.” — Zentralblatt MATH “This beautiful book presents, at a level suitable for advanced undergraduates, a fairly complete introduction to the problem of counting lattice points inside a convex polyhedron.” — Mathematical Reviews “Many departments recognize the need for capstone courses in which graduating students can see the tools they have acquired come together in some satisfying way. Beck and Robins have written the perfect text for such a course.” — CHOICE.

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