

JACQUES MARTINET

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Comprehensive Studies
in Mathematics

PERFECT LATTICES IN
EUCLIDEAN SPACES



Springer

Perfect Lattices In Euclidean Space

S Nieto



Perfect Lattices In Euclidean Space:

Perfect Lattices in Euclidean Spaces Jacques Martinet, 2002-12-10 Lattices are discrete subgroups of maximal rank in a Euclidean space To each such geometrical object we can attach a canonical sphere packing which assuming some regularity has a density The question of estimating the highest possible density of a sphere packing in a given dimension is a fascinating and difficult problem the answer is known only up to dimension 3 This book thus discusses a beautiful and central problem in mathematics which involves geometry number theory coding theory and group theory centering on the study of extreme lattices i e those on which the density attains a local maximum and on the so called perfection property Written by a leader in the field it is closely related to though disjoint in content from the classic book by J H Conway and N J A Sloane Sphere Packings Lattices and Groups published in the same series as vol 290 Every chapter except the first and the last contains numerous exercises For simplicity those chapters involving heavy computational methods contain only few exercises It includes appendices on Semi Simple Algebras and Quaternions and Strongly Perfect Lattices

Discrete Geometry and Topology Boris Nikolaevich Delone, 1993 This collection of papers honors the 100th anniversary of the birth of Boris Nikolaevich Delone whose mathematical interests centered on the geometry of positive quadratic forms After an initial paper presenting an account of Delone s life including his scientific work the book centers on discrete geometry and combinatorics The book presents new methods that permit a description of the structure of some L bodies and L partitionings and that in many cases provide a definitive description Also studied are combinatorial topological problems arising in the statistical Ising model the disposition of finite point sets in convex bodies of high dimension under certain conditions and investigations of regular partitionings of spaces of constant curvature

Computational Geometry of Positive Definite Quadratic Forms Achill Schurmann, 2009 Starting from classical arithmetical questions on quadratic forms this book takes the reader step by step through the connections with lattice sphere packing and covering problems As a model for polyhedral reduction theories of positive definite quadratic forms Minkowski s classical theory is presented including an application to multidimensional continued fraction expansions The reduction theories of Voronoi are described in great detail including full proofs new views and generalizations that cannot be found elsewhere Based on Voronoi s second reduction theory the local analysis of sphere coverings and several of its applications are presented These include the classification of totally real thin number fields connections to the Minkowski conjecture and the discovery of new sometimes surprising properties of exceptional structures such as the Leech lattice or the root lattices Throughout this book special attention is paid to algorithms and computability allowing computer assisted treatments Although dealing with relatively classical topics that have been worked on extensively by numerous authors this book is exemplary in showing how computers may help to gain new insights

Sphere Packings, Lattices and Groups John Conway, Neil J. A. Sloane, 2013-06-29 We now apply the algorithm above to find the 121 orbits of norm 2 vectors from the known n ann 0 vectors and then apply it again to find the 665 orbits of n ann

4 vectors from the vectors of norm 0 and 2 The neighbors of a strictly 24 dimensional odd unimodular lattice can be found as follows If a norm 4 vector $v \in \Lambda$ corresponds to the sum of a strictly 24 dimensional odd unimodular lattice A and a dimensional lattice then there are exactly two norm 0 vectors of Λ having inner product 2 with v and these norm 0 vectors correspond to the two even neighbors of A The enumeration of the odd 24 dimensional lattices Figure 17.1 shows the neighborhood graph for the Niemeier lattices which has a node for each Niemeier lattice If A and B are neighboring Niemeier lattices there are three integral lattices containing A and B namely $A+B$ and an odd unimodular lattice C of Kne4 An edge is drawn between nodes A and B in Fig 17.1 for each strictly 24 dimensional unimodular lattice arising in this way Thus there is a one to one correspondence between the strictly 24 dimensional odd unimodular lattices and the edges of our neighborhood graph The 156 lattices are shown in Table 17.1 Figure 17.1 also shows the corresponding graphs for dimensions 8 and 16

Algorithmic Number Theory Guillaume Hanrot, Francois Morain, Emmanuel Thomé, 2010-07-08 This book constitutes the refereed proceedings of the 9th International Algorithmic Number Theory Symposium ANTS 2010 held in Nancy France in July 2010 The 25 revised full papers presented together with 5 invited papers were carefully reviewed and selected for inclusion in the book The papers are devoted to algorithmic aspects of number theory including elementary number theory algebraic number theory analytic number theory geometry of numbers algebraic geometry finite fields and cryptography Integer Points in Polyhedra -- Geometry, Number Theory, Representation Theory, Algebra, Optimization, Statistics Matthias Beck, 2008 The AMS IMS SIAM Joint Summer Research Conference Integer Points in Polyhedra Geometry Number Theory Representation Theory Algebra Optimization Statistics was held in Snowbird Utah in June 2006 This proceedings volume contains research and survey articles originating from the conference The volume is a cross section of recent advances connected to lattice point questions Similar to the talks given at the conference topics range from commutative algebra to optimization from discrete geometry to statistics from mirror symmetry to geometry of numbers The book is suitable for researchers and graduate students interested in combinatorial aspects of the above fields Back cover

Quadratic Forms -- Algebra, Arithmetic, and Geometry Ricardo Baeza, 2009-08-14 This volume presents a collection of articles that are based on talks delivered at the International Conference on the Algebraic and Arithmetic Theory of Quadratic Forms held in Frutillar Chile in December 2007 The theory of quadratic forms is closely connected with a broad spectrum of areas in algebra and number theory The articles in this volume deal mainly with questions from the algebraic geometric arithmetic and analytic theory of quadratic forms and related questions in algebraic group theory and algebraic geometry *Bulletin (new Series) of the American Mathematical Society*, 2004 **Notices of the American**

Mathematical Society American Mathematical Society, 1993 *Mathematical Reviews*, 2007 **Journal de théorie des nombres de Bordeaux**, 2006 **Memoirs of the Unifying Study of the Basic Problems in Engineering Sciences by Means of Geometry** Unifying Study Group (Japan), 1962 **St. Petersburg Mathematical Journal**, 2005 Algorithmic

Number Theory ,2004 SIAM Journal on Computing Society for Industrial and Applied Mathematics,2004 **Optimised**
Dirac Operators on the Lattice Wolfgang Bietenholz,2006 *R A A G Memoirs of the Unifying Study of Basic Problems in*
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