

**J. H. CONWAY
N. J. A. SLOANE**

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SPHERE PACKINGS, LATTICES AND GROUPS

THIRD EDITION



Springer

Sphere Packings Lattices And Groups

Mark Steyvers



Sphere Packings Lattices And Groups:

Sphere Packings, Lattices and Groups J.H. Conway, N.J.A. Sloane, 2013-03-09 The second edition of this timely definitive and popular book continues to pursue the question what is the most efficient way to pack a large number of equal spheres in n dimensional Euclidean space The authors also continue to examine related problems such as the kissing number problem the covering problem the quantizing problem and the classification of lattices and quadratic forms Like the first edition the second edition describes the applications of these questions to other areas of mathematics and science such as number theory coding theory group theory analog to digital conversion and data compression n dimensional crystallography and dual theory and superstring theory in physics Results as of 1992 have been added to the text and the extensive bibliography itself a contribution to the field is supplemented with approximately 450 new entries

Sphere Packings, Lattices and Groups John Horton Conway, Neil James Alexander Sloane, 1998

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 norm 0 vectors and then apply it again to find the 665 orbits of norm 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 $25 \cdot 1$ 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 rank 4 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

Sphere Packings, Lattices and Groups John H. Conway, Neil J.A. Sloane, 2013-02-14 The main themes This book is mainly concerned with the problem of packing spheres in Euclidean space of dimensions 1 2 3 4 5 Given a large number of equal spheres what is the most efficient or densest way to pack them together We also study several closely related problems the kissing number problem which asks how many spheres can be arranged so that they all touch one central sphere of the same size the covering problem which asks for the least dense way to cover n dimensional space with equal overlapping spheres and the quantizing problem important for applications to analog to digital conversion or data compression which asks how to place points in space so that the average second moment of their Voronoi cells is as small as possible Attacks on these problems usually arrange the spheres so their centers form a lattice Lattices are described by quadratic forms and we study the classification of quadratic forms Most of the book is devoted to these five problems The miraculous enters the E_8 and Leech lattices When we investigate those problems some

fantastic things happen There are two sphere packings one in eight dimensions the E_8 lattice and one in twenty four dimensions the Leech lattice Λ which are unexpectedly good and very 24 symmetrical packings and have a number of remarkable and mysterious properties not all of which are completely understood even today **Sphere Packings, Lattices and Groups** J. H. Conway, 2014-01-15 CRC Concise Encyclopedia of Mathematics Eric W. Weisstein, 2002-12-12

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Current Developments in Mathematics, 1999 Pioneers in Mathematics Michael John Bradley, 2006 Zeitschrift Für Kristallographie, 1990

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