

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

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SPHERE PACKINGS, LATTICES AND GROUPS

THIRD EDITION



Springer

Sphere Packings Lattices And Groups

John H. Conway, Neil J.A. Sloane



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 Conway,Neil J. A. Sloane,1998-12-07 The third edition of this 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 examine such related issues as the kissing number problem the covering problem the quantizing problem and the classification of lattices and quadratic forms There is also a description of the applications of these questions to other areas of mathematics and science such as number theory coding theory group theory analogue to digital conversion and data compression n dimensional crystallography dual theory and superstring theory in physics New and of special interest is a report on some recent developments in the field and an updated and enlarged supplementary bibliography with over 800 items [Sphere Packings, Lattices and Groups](#) John Horton Conway,Neil James Alexander

Sloane,1998 *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 A 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** John Conway,Neil J. A.

Sloane,2014-01-15 **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 $25/1$ 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 $A \cap B$ namely A , B and an odd unimodular lattice C of rank 24 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** J. H. Conway,2014-01-15 Sphere Packings Chuanming Zong,2008-01-20 Sphere packings is one of the most fascinating and challenging subjects in mathematics In the course of centuries many exciting results have been obtained ingenious methods created related challenging problems proposed and many surprising connections with other subjects found This book gives a full account of this fascinating subject especially its local aspects discrete aspects and its proof methods The book includes both classical and contemporary results and provides a full treatment of the subject CRC Concise Encyclopedia of Mathematics Eric W. Weisstein,2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the demand for a new edition *Reviews in Number Theory, 1984-96* ,1997

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Table of Contents Sphere Packings Lattices And Groups

1. Understanding the eBook Sphere Packings Lattices And Groups
 - The Rise of Digital Reading Sphere Packings Lattices And Groups
 - Advantages of eBooks Over Traditional Books
2. Identifying Sphere Packings Lattices And Groups
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sphere Packings Lattices And Groups
 - Personalized Recommendations
 - eBook Platform User Reviews and Ratings
 - eBook Platform and Bestseller Lists

5. Accessing Sphere Packings Lattices And Groups Free and Paid eBooks
 - Sphere Packings Lattices And Groups Public Domain eBooks
 - Sphere Packings Lattices And Groups eBook Subscription Services
 - Sphere Packings Lattices And Groups Budget-Friendly Options
6. Navigating Sphere Packings Lattices And Groups eBook Formats
 - ePub, PDF, MOBI, and More
 - Sphere Packings Lattices And Groups Compatibility with Devices
 - Sphere Packings Lattices And Groups Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sphere Packings Lattices And Groups
 - Highlighting and Note-Taking Sphere Packings Lattices And Groups
 - Interactive Elements Sphere Packings Lattices And Groups
8. Staying Engaged with Sphere Packings Lattices And Groups
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sphere Packings Lattices And Groups
9. Balancing eBooks and Physical Books Sphere Packings Lattices And Groups
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sphere Packings Lattices And Groups
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sphere Packings Lattices And Groups
 - Setting Reading Goals Sphere Packings Lattices And Groups
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sphere Packings Lattices And Groups
 - Fact-Checking eBook Content of Sphere Packings Lattices And Groups
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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