

Monographs
in Mathematics

Franz Georg Timmesfeld

**Abstract Root Subgroups
and Simple Groups
of Lie-Type**



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Abstract Root Subgroups And Simple Groups Of Lietype

Helge Holden, Ragni Piene



Abstract Root Subgroups And Simple Groups Of Lie Type:

Abstract Root Subgroups and Simple Groups of Lie-Type Franz G. Timmesfeld, 2012-12-06 It was already in 1964 Fis66 when B Fischer raised the question Which finite groups can be generated by a conjugacy class D of involutions the product of any two of which has order 1 2 or 37 Such a class D he called a class of 3 transpositions of G This question is quite natural since the class of transpositions of a symmetric group possesses this property Namely the order of the product $ij \cdot kl$ is 1 2 or 3 according as $ij \cdot n \cdot kl$ consists of 2 0 or 1 element In fact if $I \cdot i \cdot j \cdot n \cdot k \cdot I \cdot 1 \cdot 1$ and $j \cdot k$ then $ij \cdot kl$ is the 3 cycle ijl After the preliminary papers Fis66 and Fis64 he succeeded in Fis71J Fis69 to classify all finite nearly simple groups generated by such a class of 3 transpositions thereby discovering three new finite simple groups called M_{22} M_{23} and M_{24} But even more important than his classification theorem was the fact that he originated a new method in the study of finite groups which is called internal geometric analysis by D Gorenstein in his book *Finite Simple Groups an Introduction to their Classification* In fact D

Gorenstein writes that this method can be regarded as second in importance for the classification of finite simple groups only to the local group theoretic analysis created by J Thompson

Abstract Root Subgroups and Simple Groups of Lie Type Franz Georg Timmesfeld, 2001-08 This book systematically treats the theory of groups generated by a conjugacy class of subgroups satisfying certain generational properties on pairs of subgroups For finite groups this theory has been developed in the 1970s mainly by M Aschbacher B Fischer and the author It was extended to arbitrary groups in the 1990s by the author The theory of abstract root subgroups is an important tool to study and classify simple classical and Lie type groups

Buildings, Finite Geometries and Groups N.S. Narasimha Sastry, 2011-11-13 This is the Proceedings of the ICM 2010 Satellite Conference on Buildings Finite Geometries and Groups organized at the Indian Statistical Institute Bangalore during August 29 31 2010 This is a collection of articles by some of the currently very active research workers in several areas related to finite simple groups Chevalley groups and their generalizations theory of buildings finite incidence geometries modular representations Lie theory etc These articles reflect the current major trends in research in the geometric and combinatorial aspects of the study of these groups The unique perspective the authors bring in their articles on the current developments and the major problems in their area is expected to be very useful to research mathematicians graduate students and potential new entrants to these areas

[The Classification of the Finite Simple Groups, Number 3](#) Daniel Gorenstein, Richard Lyons, Ronald Solomon, 1994 Examines the internal structure of the finite simple groups of Lie type the finite alternating groups and 26 sporadic finite simple groups as well as their analogues Emphasis is on the structure of local subgroups and their relationships with one another rather than development of an abstract theory of simple groups A foundation is laid for the development of specific properties of K groups to be used in the inductive proof of the classification theorem Highlights include statements and proofs of the Breol Tits and Curtis Tits theorems and material on centralizers of semisimple involutions in groups of Lie type For graduate students and research mathematicians Annotation

copyrighted by Book News Inc Portland OR Simple Groups of Lie Type Roger W. Carter, 1989-01-18 Now available in paperback the standard introduction to the theory of simple groups of Lie type In 1955 Chevalley showed how to construct analogues of the complex simple Lie groups over arbitrary fields The present work presents the basic results in the structure theory of Chevalley groups and their twisted analogues Carter looks at groups of automorphisms of Lie algebras makes good use of Weyl group also discussing Lie groups over finite fields and develops the theory of Chevalley and Steinberg groups in the general context of groups with a BN pair This new edition contains a corrected proof of the simplicity of twisted groups a completed list of sporadic simple groups in the final chapter and a few smaller amendments otherwise this work remains the classic piece of exposition it was when it first appeared in 1971 **Subgroup Complexes** Stephen D. Smith, 2011-11-10

This book is intended as an overview of a research area that combines geometries for groups such as Tits buildings and generalizations topological aspects of simplicial complexes from p subgroups of a group in the spirit of Brown Quillen and Webb and combinatorics of partially ordered sets The material is intended to serve as an advanced graduate level text and partly as a general reference on the research area The treatment offers optional tracks for the reader interested in buildings geometries for sporadic simple groups and G equivariant equivalences and homology for subgroup complexes Groups, Combinatorics And Geometry Alexander Anatolievich Ivanov, Martin W Liebeck, Jan Saxl, 2003-03-19 Over the past 20 years the theory of groups in particular simple groups finite and algebraic has influenced a number of diverse areas of mathematics Such areas include topics where groups have been traditionally applied such as algebraic combinatorics finite geometries Galois theory and permutation groups as well as several more recent developments Among the latter are probabilistic and computational group theory the theory of algebraic groups over number fields and model theory in each of which there has been a major recent impetus provided by simple group theory In addition there is still great interest in local analysis in finite groups with substantial new input from methods of geometry and amalgams and particular emphasis on the revision project for the classification of finite simple groups This important book contains 20 survey articles covering many of the above developments It should prove invaluable for those working in the theory of groups and its applications Cubic Action of a

Rank One Group Matthias Gr ninger, 2022-04-08 View the abstract **Moufang Sets and Structurable Division Algebras** Lien Boelaert, Tom De Medts, Anastasia Stavrova, 2019-06-10 A Moufang set is essentially a doubly transitive permutation group such that each point stabilizer contains a normal subgroup which is regular on the remaining vertices these regular normal subgroups are called the root groups and they are assumed to be conjugate and to generate the whole group It has been known for some time that every Jordan division algebra gives rise to a Moufang set with abelian root groups The authors extend this result by showing that every structurable division algebra gives rise to a Moufang set and conversely they show that every Moufang set arising from a simple linear algebraic group of relative rank one over an arbitrary field k of characteristic different from 2 and 3 arises from a structurable division algebra The authors also obtain

explicit formulas for the root groups the map and the Hua maps of these Moufang sets This is particularly useful for the Moufang sets arising from exceptional linear algebraic groups The Classification of the Finite Simple Groups Daniel Gorenstein, Richard Lyons, Ronald M. Solomon, 1994-11-18 The classification of the finite simple groups is one of the major feats of contemporary mathematical research but its proof has never been completely extricated from the journal literature in which it first appeared This book serves as an introduction to a series devoted to organizing and simplifying the proof The purpose of the series is to present as direct and coherent a proof as is possible with existing techniques This first volume which sets up the structure for the entire series begins with largely informal discussions of the relationship between the Classification Theorem and the general structure of finite groups as well as the general strategy to be followed in the series and a comparison with the original proof Also listed are background results from the literature that will be used in subsequent volumes Next the authors formally present the structure of the proof and the plan for the series of volumes in the form of two grids giving the main case division of the proof as well as the principal milestones in the analysis of each case Thumbnail sketches are given of the ten or so principal methods underlying the proof Much of the book is written in an expository style accessible to nonspecialists *Finite Groups 2003* Chat Yin Ho, Peter Sin, Pham Huu Tiep, Alexandre Turull, 2008-08-22 This is a volume of research articles related to finite groups Topics covered include the classification of finite simple groups the theory of p groups cohomology of groups representation theory and the theory of buildings and geometries As well as more than twenty original papers on the latest developments which will be of great interest to specialists the volume contains several expository articles from which students and non experts can learn about the present state of knowledge and promising directions for further research The Finite Groups 2003 conference was held in honor of John Thompson The profound influence of his fundamental contributions is clearly visible in this collection of papers dedicated to him Steinberg Groups for Jordan Pairs Ottmar Loos, Erhard Neher, 2020-01-10 The present monograph develops a unified theory of Steinberg groups independent of matrix representations based on the theory of Jordan pairs and the theory of 3 graded locally finite root systems The development of this approach occurs over six chapters progressing from groups with commutator relations and their Steinberg groups then on to Jordan pairs 3 graded locally finite root systems and groups associated with Jordan pairs graded by root systems before exploring the volume's main focus the definition of the Steinberg group of a root graded Jordan pair by a small set of relations and its central closedness Several original concepts such as the notions of Jordan graphs and Weyl elements provide readers with the necessary tools from combinatorics and group theory Steinberg Groups for Jordan Pairs is ideal for PhD students and researchers in the fields of elementary groups Steinberg groups Jordan algebras and Jordan pairs By adopting a unified approach anybody interested in this area who seeks an alternative to case by case arguments and explicit matrix calculations will find this book essential **Vertex Operator Algebras, Number Theory and Related Topics** Matthew Krauel, Michael Tuite, Gaywalee Yamskulna, 2020-07-13 This

volume contains the proceedings of the International Conference on Vertex Operator Algebras Number Theory and Related Topics held from June 11-15, 2018 at California State University Sacramento, California. The mathematics of vertex operator algebras, vector-valued modular forms, and finite group theory continues to provide a rich and vibrant landscape in mathematics and physics. The resurgence of moonshine related to the Mathieu group and other groups, the increasing role of algebraic geometry, and the development of irrational vertex operator algebras are just a few of the exciting and active areas at present. The proceedings center around active research on vertex operator algebras and vector-valued modular forms and offer original contributions to the areas of vertex algebras and number theory, surveys on some of the most important topics relevant to these fields, introductions to new fields related to these, and open problems from some of the leaders in these areas.

Applying the Classification of Finite Simple Groups Stephen D. Smith, 2018-04-30. Classification of Finite Simple Groups (CFSG) is a major project involving work by hundreds of researchers. The work was largely completed by about 1983, although final publication of the quasithin part was delayed until 2004. Since the 1980s, CFSG has had a huge influence on work in finite group theory and in many adjacent fields of mathematics. This book attempts to survey and sample a number of such topics from the very large and increasingly active research area of applications of CFSG. The book is based on the author's lectures at the September 2015 Venice Summer School on Finite Groups. With about 50 exercises from original lectures, it can serve as a second-year graduate course for students who have had first-year graduate algebra. It may be of particular interest to students looking for a dissertation topic around group theory. It can also be useful as an introduction and basic reference; in addition, it indicates fuller citations to the appropriate literature for readers who wish to go on to more detailed sources.

The Abel Prize 2008-2012 Helge Holden, Ragni Piene, 2014-01-21. Covering the years 2008-2012, this book profiles the life and work of recent winners of the Abel Prize: John G. Thompson and Jacques Tits (2008), Mikhail Gromov (2009), John T. Tate Jr. (2010), John W. Milnor (2011), and Endre Szemerédi (2012). The profiles feature autobiographical information as well as a description of each mathematician's work. In addition, each profile contains a complete bibliography, a curriculum vitae, as well as photos, old and new. As an added feature, interviews with the Laureates are presented on an accompanying web site: <http://extras.springer.com>. The book also presents a history of the Abel Prize, written by the historian Kim Helmsvig, and includes a facsimile of a letter from Niels Henrik Abel, which is transcribed, translated into English, and placed into historical perspective by Christian Skau. This book follows on *The Abel Prize 2003-2007: The First Five Years* (Springer, 2010), which profiles the work of the first Abel Prize winners.

Buildings Peter Abramenko, Kenneth S. Brown, 2008-12-16. This text started out as a revised version of *Buildings* by the second-named author (53), but it has grown into a much more voluminous book. The earlier book was intended to give a short, friendly, elementary introduction to theory accessible to readers with a minimal background. Moreover, it approached buildings from only one point of view, sometimes called the old-fashioned approach. A building is a simplicial complex with certain properties. The current book includes all the material of the earlier

one but we have added a lot In particular we have included the modern or W metric approach to buildings which looks quite different from the old fashioned approach but is equivalent to it This has become increasingly important in the theory and applications of buildings We have also added a thorough treatment of the Moufang property which occupies two chapters And we have added many new exercises and illustrations Some of the exercises have hints or solutions in the back of the book A more extensive set of solutions is available in a separate solutions manual which may be obtained from Springer s Mathematics Editorial Department We have tried to add the new material in such a way that readers who are content with the old fashioned approach can still get an elementary treatment of it by reading selected chapters or sections In particular many readers will want to omit the optional sections marked with a star The introduction below provides more detailed guidance to the reader

Finite and Locally Finite Groups B. Hartley,G.M. Seitz,A.V. Borovik,R.M. Bryant,2012-12-06 This volume contains the proceedings of the NATO Advanced Study Institute on Finite and Locally Finite Groups held in Istanbul Turkey 14 27 August 1994 at which there were about 90 participants from some 16 different countries The ASI received generous financial support from the Scientific Affairs Division of NATO INTRODUCTION A locally finite group is a group in which every finite set of elements is contained in a finite subgroup The study of locally finite groups began with Schur s result that a periodic linear group is in fact locally finite The simple locally finite groups are of particular interest In view of the classification of the finite simple groups and advances in representation theory it is natural to pursue classification theorems for simple locally finite groups This was one of the central themes of the Istanbul conference and significant progress is reported herein The theory of simple locally finite groups intersects many areas of group theory and representation theory so this served as a focus for several articles in the volume Every simple locally finite group has what is known as a Kegel cover This is a collection of pairs G_i where I is an index set each group G_i is finite

Translation Generalized Quadrangles Joseph A Thas,Koen Thas,Hendrik Van Maldeghem,2006-09-28 Translation generalized quadrangles play a key role in the theory of generalized quadrangles comparable to the role of translation planes in the theory of projective and affine planes The notion of translation generalized quadrangle is a local analogue of the more global Moufang Condition a topic of great interest also due to the classification of all Moufang polygons Attention is thus paid to recent results in that direction but also many of the most important results in the general theory of generalized quadrangles that appeared since 1984 are treated Translation Generalized Quadrangles is essentially self contained as the reader is only expected to be familiar with some basic facts on finite generalized quadrangles Proofs that are either too long or too technical are left out or just sketched The three standard works on generalized quadrangles are co authored by the writers of this book Finite Generalized Quadrangles 1984 by S E Payne and J A Thas Generalized Polygons 1998 by H Van Maldeghem and Symmetry in Finite Generalized Quadrangles 2004 by K Thas Journal of the Indian Institute of Science Indian Institute of Science, Bangalore,2002 **Expansion in Finite Simple Groups of Lie Type** Terence Tao,2015-04-16

Expander graphs are an important tool in theoretical computer science geometric group theory probability and number theory Furthermore the techniques used to rigorously establish the expansion property of a graph draw from such diverse areas of mathematics as representation theory algebraic geometry and arithmetic combinatorics This text focuses on the latter topic in the important case of Cayley graphs on finite groups of Lie type developing tools such as Kazhdan's property T quasirandomness product estimates escape from subvarieties and the Balog Szemerédi Gowers lemma Applications to the affine sieve of Bourgain Gamburd and Sarnak are also given The material is largely self contained with additional sections on the general theory of expanders spectral theory Lie theory and the Lang Weil bound as well as numerous exercises and other optional material

The book delves into Abstract Root Subgroups And Simple Groups Of Lietype. Abstract Root Subgroups And Simple Groups Of Lietype is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Abstract Root Subgroups And Simple Groups Of Lietype, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 5: Conclusion
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Abstract Root Subgroups And Simple Groups Of Lietype.

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