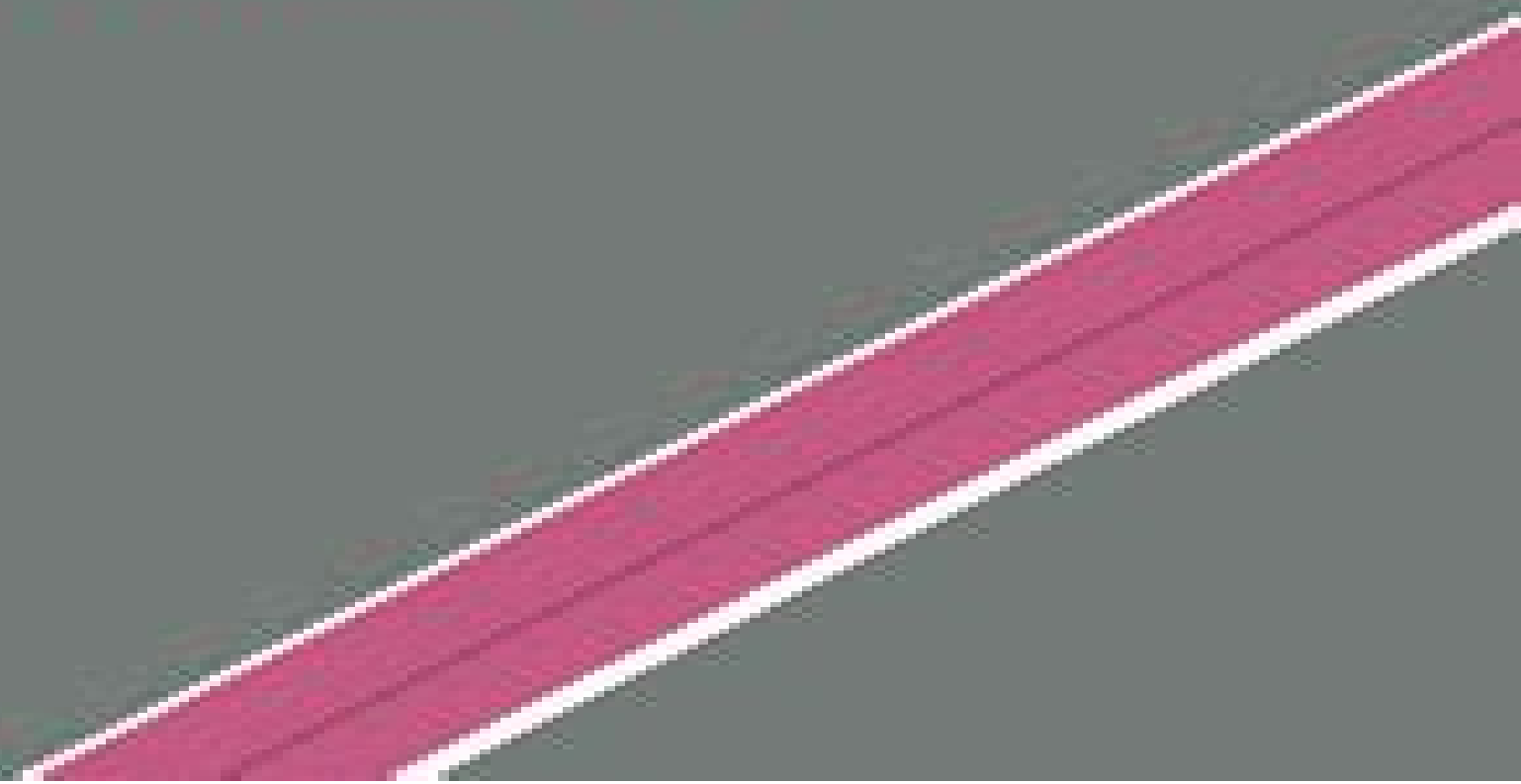


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Groups Acting On Graphs

Warren Dicks, M. J. Dunwoody



Groups Acting On Graphs:

Groups Acting on Graphs Warren Dicks, M. J. Dunwoody, 1989-03-09 Originally published in 1989 this is an advanced text and research monograph on groups acting on low dimensional topological spaces and for the most part the viewpoint is algebraic. Much of the book occurs at the one dimensional level where the topology becomes graph theory. Two dimensional topics include the characterization of Poincaré duality groups and accessibility of almost finitely presented groups. The main three dimensional topics are the equivariant loop and sphere theorems. The prerequisites grow as the book progresses up the dimensions. A familiarity with group theory is sufficient background for at least the first third of the book while the later chapters occasionally state without proof and then apply various facts which require knowledge of homological algebra and algebraic topology. This book is essential reading for anyone contemplating working in the subject. *Groups Acting on Graphs* Rögnvaldur G. Möller, 1991

Graphs, Groups and Surfaces A.T. White, 1985-01-01 The field of topological graph theory has expanded greatly in the ten years since the first edition of this book appeared. The original nine chapters of this classic work have therefore been revised and updated. Six new chapters have been added dealing with voltage graphs, non-orientable imbeddings, block designs associated with graph imbeddings, hypergraph imbeddings, map automorphism groups and change ringing. Thirty two new problems have been added to this new edition so that there are now 181 in all. 22 of these have been designated as difficult and 9 as unsolved. Three of the four unsolved problems from the first edition have been solved in the ten years between editions; they are now marked as difficult. *Groups, Graphs and Random Walks* Tullio Ceccherini-Silberstein, Maura Salvatori, Ecaterina Sava-Huss, 2017-06-29 An up to date panoramic account of the theory of random walks on groups and graphs outlining connections with various mathematical fields. *Graphs of Groups on Surfaces* A.T. White, 2001-04-27 The book suitable as both an introductory reference and as a text book in the rapidly growing field of topological graph theory. Models both maps as in map coloring problems and groups by means of graph imbeddings on surfaces. Automorphism groups of both graphs and maps are studied. In addition connections are made to other areas of mathematics such as hypergraphs, block designs, finite geometries and finite fields. There are chapters on the emerging subfields of enumerative topological graph theory and random topological graph theory as well as a chapter on the composition of English church bell music. The latter is facilitated by imbedding the right graph of the right group on an appropriate surface with suitable symmetries. Throughout the emphasis is on Cayley maps, imbeddings of Cayley graphs for finite groups as possibly branched covering projections of surface imbeddings of loop graphs with one vertex. This is not as restrictive as it might sound. Many developments in topological graph theory involve such imbeddings. The approach aims to make all this interconnected material readily accessible to a beginning graduate or an advanced undergraduate student while at the same time providing the research mathematician with a useful reference book in topological graph theory. The focus will be on beautiful connections both elementary and deep within mathematics that can best be described by the intuitively

pleasing device of imbedding graphs of groups on surfaces *Geometry of Sporadic Groups: Volume 1, Petersen and Tilde Geometries* A. A. Ivanov,Aleksandr Anatolievich Ivanov,1999-06-17 Important monograph on finite group theory

Profinite Graphs and Groups Luis Ribes,2017-08-23 This book offers a detailed introduction to graph theoretic methods in profinite groups and applications to abstract groups It is the first to provide a comprehensive treatment of the subject The author begins by carefully developing relevant notions in topology profinite groups and homology including free products of profinite groups cohomological methods in profinite groups and fixed points of automorphisms of free pro p groups The final part of the book is dedicated to applications of the profinite theory to abstract groups with sections on finitely generated subgroups of free groups separability conditions in free and amalgamated products and algorithms in free groups and finite monoids Profinite Graphs and Groups will appeal to students and researchers interested in profinite groups geometric group theory graphs and connections with the theory of formal languages A complete reference on the subject the book includes historical and bibliographical notes as well as a discussion of open questions and suggestions for further reading

Groups '93 Galway/St Andrews: Volume 2 C. M. Campbell,E. F. Robertson,T. C. Hurley,S. J. Tobin,J. J. Ward,1995-03-16 This two volume book contains selected papers from the international conference Groups 1993 Galway St Andrews which was held at University College Galway in August 1993 The wealth and diversity of group theory is represented in these two volumes As with the Proceedings of the earlier Groups St Andrews conferences it is hoped that the articles in these Proceedings will with their many references prove valuable both to experienced researchers and also to new postgraduates interested in group theory *Algebra in Action: A Course in Groups, Rings, and Fields* Shahriar

Shahriar,2017-08-16 This text based on the author s popular courses at Pomona College provides a readable student friendly and somewhat sophisticated introduction to abstract algebra It is aimed at sophomore or junior undergraduates who are seeing the material for the first time In addition to the usual definitions and theorems there is ample discussion to help students build intuition and learn how to think about the abstract concepts The book has over 1300 exercises and mini projects of varying degrees of difficulty and to facilitate active learning and self study hints and short answers for many of the problems are provided There are full solutions to over 100 problems in order to augment the text and to model the writing of solutions Lattice diagrams are used throughout to visually demonstrate results and proof techniques The book covers groups rings and fields In group theory group actions are the unifying theme and are introduced early Ring theory is motivated by what is needed for solving Diophantine equations and in field theory Galois theory and the solvability of polynomials take center stage In each area the text goes deep enough to demonstrate the power of abstract thinking and to convince the reader that the subject is full of unexpected results *Topics in Algebraic Graph Theory* Lowell W.

Beineke,Robin J. Wilson,2004-10-04 There is no other book with such a wide scope of both areas of algebraic graph theory

Automata, Languages and Programming Friedhelm Meyer auf der Heide,Burkhard Monien,1996-06-26 This volume

constitutes the refereed proceedings of the 23rd International Colloquium on Automata Languages and Programming ICALP 96 held at Paderborn Germany in July 1996 ICALP is an annual conference sponsored by the European Association on Theoretical Computer Science EATCS The proceedings contain 52 refereed papers selected from 172 submissions and 4 invited papers The papers cover the whole range of theoretical computer science they are organized in sections on Process Theory Fairness Domination and the μ Calculus Logic and Algebra Languages and Processes Algebraic Complexity Graph Algorithms Automata Complexity Theory Combinatorics on Words Algorithms Lower Bounds Data Structures *Algorithmic and Geometric Topics Around Free Groups and Automorphisms* Javier Aramayona, Volker Diekert, Christopher J.

Leininger, Pedro V. Silva, Armin Weiß, 2017-11-29 This volume presents the lecture notes from the authors three summer courses offered during the program Automorphisms of Free Groups Geometry Topology and Dynamics held at the Centre de Recerca Matemàtica CRM in Bellaterra Spain The first two chapters present the basic tools needed from formal language theory regular and context free languages automata rewriting systems transducers etc and emphasize their connections to group theory mostly relating to free and virtually free groups The material covered is sufficient to present full proofs of many of the existing interesting characterizations of virtually free groups In turn the last chapter comprehensively describes Bonahon's construction of Thurston's compactification of Teichmüller space in terms of geodesic currents on surfaces It also includes several intriguing extensions of the notion of geodesic current to various other more general settings Groups, Trees and Projective Modules W. Dicks, 2006-11-15 **Automorphisms of Riemann Surfaces, Subgroups of Mapping**

Class Groups and Related Topics Aaron Wootton, S. Allen Broughton, Jennifer Paulhus, 2022-02-03 Automorphism groups of Riemann surfaces have been widely studied for almost 150 years This area has persisted in part because it has close ties to many other topics of interest such as number theory graph theory mapping class groups and geometric and computational group theory In recent years there has been a major revival in this area due in part to great advances in computer algebra systems and progress in finite group theory This volume provides a concise but thorough introduction for newcomers to the area while at the same time highlighting new developments for established researchers The volume starts with two expository articles The first of these articles gives a historical perspective of the field with an emphasis on highly symmetric surfaces such as Hurwitz surfaces The second expository article focuses on the future of the field outlining some of the more popular topics in recent years and providing 78 open research problems across all topics The remaining articles showcase new developments in the area and have specifically been chosen to cover a variety of topics to illustrate the range of diversity within the field *Discrete Groups, Expanding Graphs and Invariant Measures* Alex Lubotzky, 2010-02-17 In the last fifteen years two seemingly unrelated problems one in computer science and the other in measure theory were solved by amazingly similar techniques from representation theory and from analytic number theory One problem is the explicit construction of expanding graphs expanders These are highly connected sparse graphs whose existence can be easily demonstrated but

whose explicit construction turns out to be a difficult task Since expanders serve as basic building blocks for various distributed networks an explicit construction is highly desirable The other problem is one posed by Ruziewicz about seventy years ago and studied by Banach It asks whether the Lebesgue measure is the only finitely additive measure of total measure one defined on the Lebesgue subsets of the n dimensional sphere and invariant under all rotations The two problems seem at first glance totally unrelated It is therefore so what surprising that both problems were solved using similar methods initially Kazhdan's property T from representation theory of semi simple Lie groups was applied in both cases to achieve partial results and later on both problems were solved using the proved Ramanujan conjecture from the theory of automorphic forms The fact that representation theory and automorphic forms have anything to do with these problems is a surprise and a hint as well that the two questions are strongly related

Random Walks on Infinite Graphs and Groups Wolfgang Woess, 2000-02-13 The main theme of this book is the interplay between the behaviour of a class of stochastic processes random walks and discrete structure theory The author considers Markov chains whose state space is equipped with the structure of an infinite locally finite graph or as a particular case of a finitely generated group The transition probabilities are assumed to be adapted to the underlying structure in some way that must be specified precisely in each case From the probabilistic viewpoint the question is what impact the particular type of structure has on various aspects of the behaviour of the random walk Vice versa random walks may also be seen as useful tools for classifying or at least describing the structure of graphs and groups Links with spectral theory and discrete potential theory are also discussed This book will be essential reading for all researchers working in stochastic process and related topics

[Geometric and Computational Perspectives on Infinite Groups](#) Gilbert Baumslag, This book contains the proceedings of two workshops on computational aspects of geometric group theory

Harmonic Analysis and Representation Theory for Groups Acting on Homogeneous Trees Alessandro Figà-Talamanca, Claudio Nebbia, 1991 These notes treat in full detail the theory of representations of the group of automorphisms of a homogeneous tree The unitary irreducible representations are classified in three types a continuous series of spherical representations two special representations and a countable series of cuspidal representations as defined by G I Olshankii Several notable subgroups of the full automorphism group are also considered The theory of spherical functions as eigenvalues of a Laplace or Hecke operator on the tree is used to introduce spherical representations and their restrictions to discrete subgroups This will be an excellent companion for all researchers into harmonic analysis or representation theory

[Topics in Combinatorial Group Theory](#) Gilbert Baumslag, 2012-12-06 Combinatorial group theory is a loosely defined subject with close connections to topology and logic With surprising frequency problems in a wide variety of disciplines including differential equations automorphic functions and geometry have been distilled into explicit questions about groups typically of the following kind Are the groups in a given class finite e.g the Burnside problem Finitely generated Finitely presented What are the conjugates of a given element in a given group What are the subgroups of that group Is there

an algorithm for deciding for every pair of groups in a given class whether they are isomorphic or not The objective of combinatorial group theory is the systematic development of algebraic techniques to settle such questions In view of the scope of the subject and the extraordinary variety of groups involved it is not surprising that no really general theory exists These notes bridging the very beginning of the theory to new results and developments are devoted to a number of topics in combinatorial group theory and serve as an introduction to the subject on the graduate level [Automorphisms of Graph Products of Groups and Acylindrical Hyperbolicity](#) Anthony Genevois, 2024-10-23 [View the abstract](#)

The Top Books of the Year Groups Acting On Graphs The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Groups Acting On Graphs : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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