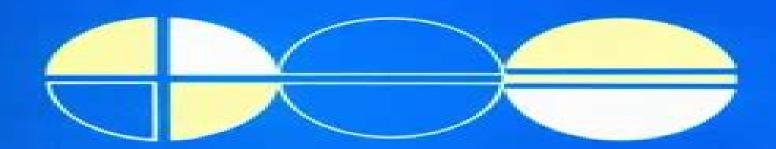# Graphs, Groups and Surfaces

ARTHUR T. WHITE

Completely revised and enlarged edition

Graphs Groups And Surfaces

Lowell W. Beineke,Bjarne Toft,Robin J. Wilson

Graphs Groups And Surfaces:

   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   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 sufaces 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   **Graphs, Groups and Surfaces** Arthur Thomas White,1973   *GRAPHS, GROUPS, AND SURFACES. REV.* A.T. WHITE,1984   Automorphism Groups of Maps, Surfaces and Smarandache Geometries (second edition), graduate text book in mathematics Linfan Mao,2011   **Topological Graph Theory** Jonathan L. Gross,Thomas W. Tucker,2001-01-01 Iintroductory treatment emphasizes graph imbedding but also covers connections between topological graph theory and other areas of mathematics Authors explore the role of voltage graphs in the derivation of genus formulas explain the Ringel Youngs theorem and examine the genus of a group including imbeddings of Cayley graphs Many figures 1987 edition   *Automorphism Groups of Maps, Surfaces and Smarandache Geometries (partially post-doctoral research for the Chinese Academy of Sciences, Beijing)* Linfan Mao,2005 A combinatorial map is a connected topological graph cellularly embedded in a surface This monograph concentrates on the automorphism group of a map which is related to the automorphism groups of a Klein surface and a Smarandache manifold also applied to the enumeration of unrooted maps on

orientable and non orientable surfaces A number of results for the automorphism groups of maps Klein surfaces and Smarandache manifolds and the enumeration of unrooted maps underlying a graph on orientable and non orientable surfaces are discovered An elementary classification for the closed s manifolds is found Open problems related to the combinatorial maps with the differential geometry Riemann geometry and Smarandache geometries are also presented in this monograph for the further applications of the combinatorial maps to the classical mathematics   Proceedings of the Fourteenth Annual ACM-SIAM Symposium on Discrete Algorithms ,2003-01-01 From the January 2003 symposium come just over 100 papers addressing a range of topics related to discrete algorithms Examples of topics covered include packing Steiner trees counting inversions in lists directed scale free graphs quantum property testing and improved results for directed multicut The papers were not formally refereed but attempts were made to verify major results Annotation c 2003 Book News Inc Portland OR booknews com   *Graph Coloring Problems* Tommy R. Jensen,Bjarne Toft,2011-10-24 Contains a wealth of information previously scattered in research journals conference proceedings and technical reports Identifies more than 200 unsolved problems Every problem is stated in a self contained extremely accessible format followed by comments on its history related results and literature The book will stimulate research and help avoid efforts on solving already settled problems Each chapter concludes with a comprehensive list of references which will lead readers to original sources important contributions and other surveys   **Graphs, Surfaces and Homology** P. Giblin,2013-06-29 viii homology groups A weaker result sufficient nevertheless for our purposes is proved in Chapter 5 where the reader will also find some discussion of the need for a more powerful in variance theorem and a summary of the proof of such a theorem Secondly the emphasis in this book is on low dimensional examples the graphs and surfaces of the title since it is there that geometrical intuition has its roots The goal of the book is the investigation in Chapter 9 of the properties of graphs in surfaces some of the problems studied there are mentioned briefly in the Introduction which contains an in formal survey of the material of the book Many of the results of Chapter 9 do indeed generalize to higher dimensions and the general machinery of simplicial homology theory is avai1able from earlier chapters but I have confined myself to one example namely the theorem that non orientable closed surfaces do not embed in three dimensional space One of the principal results of Chapter 9 a version of Lefschetz duality certainly generalizes but for an effective presentation such a gener ization needs cohomology theory Apart from a brief mention in connexion with Kirchhoff s laws for an electrical network I do not use any cohomology here Thirdly there are a number of digressions whose purpose is rather to illuminate the central argument from a slight dis tance than to contribute materially to its exposition   **Graphs, Surfaces and Homology** Peter Giblin,2010-08-12 Homology theory is a powerful algebraic tool that is at the centre of current research in topology and its applications This accessible textbook will appeal to mathematics students interested in the application of algebra to geometrical problems specifically the study of surfaces sphere torus Mobius band Klein bottle In this introduction to simplicial homology the most easily digested version of homology theory the

author studies interesting geometrical problems such as the structure of two dimensional surfaces and the embedding of graphs in surfaces using the minimum of algebraic machinery and including a version of Lefschetz duality Assuming very little mathematical knowledge the book provides a complete account of the algebra needed abelian groups and presentations and the development of the material is always carefully explained with proofs given in full detail Numerous examples and exercises are also included making this an ideal text for undergraduate courses or for self study **Topics on Riemann Surfaces and Fuchsian Groups** Emilio Bujalance García,A. F. Costa,E. Martínez,2001-06-14 Introduction to Riemann surfaces for graduates and researchers giving refreshingly new insights into the subject *Foliations on Surfaces* Igor Nikolaev,2013-03-14 Foliations is one of the major concepts of modern geometry and topology meaning a partition of topological space into a disjoint sum of leaves This book is devoted to geometry and topology of surface foliations and their links to ergodic theory dynamical systems complex analysis differential and noncommutative geometry This comprehensive book addresses graduate students and researchers and will serve as a reference book for experts in the field

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 *Topics in Topological Graph Theory* Lowell W. Beineke,Robin J. Wilson,2009-07-09 The use of topological ideas to explore various aspects of graph theory and vice versa is a fruitful area of research There are links with other areas of mathematics such as design theory and geometry and increasingly with such areas as computer networks where symmetry is an important feature Other books cover portions of the material here but there are no other books with such a wide scope This book contains fifteen expository chapters written by acknowledged international experts in the field Their well written contributions have been carefully edited to enhance readability and to standardize the chapter structure terminology and notation throughout the book To help the reader there is an extensive introductory chapter that covers the basic background material in graph theory and the topology of surfaces Each chapter concludes with an extensive list of references *Graphs on Surfaces and Their*

Applications Sergei K. Lando,Alexander K. Zvonkin,2013-04-17 Graphs drawn on two dimensional surfaces have always attracted researchers by their beauty and by the variety of difficult questions to which they give rise The theory of such embedded graphs which long seemed rather isolated has witnessed the appearance of entirely unexpected new applications in recent decades ranging from Galois theory to quantum gravity models and has become a kind of a focus of a vast field of research The book provides an accessible introduction to this new domain including such topics as coverings of Riemann surfaces the Galois group action on embedded graphs Grothendieck s theory of dessins d enfants the matrix integral method moduli spaces of curves the topology of meromorphic functions and combinatorial aspects of Vassiliev s knot invariants and in an appendix by Don Zagier the use of finite group representation theory The presentation is concrete throughout with numerous figures examples including computer calculations and exercises and should appeal to both graduate students and researchers   **Milestones in Graph Theory** Lowell W. Beineke,Bjarne Toft,Robin J. Wilson,2025-06-26 This book gives an engaging overview of the advances in graph theory during the 20th century The authors all subject experts considered hundreds of original papers picking out key developments and some of the notable milestones in the subject This carefully researched volume leads the reader from the struggles of the early pioneers through the rapid expansion of the subject in the 1960s and 1970s up to the present day with graph theory now a part of mainstream mathematics After an opening chapter giving an overview of graph theory and its legacy from the 18th and 19th centuries the book is organized thematically into seven chapters each covering the developments made in a specified area Topics covered in these chapters include map colorings planarity Hamiltonian graphs matchings extremal graph theory and complexity Each chapter is supplemented with copious endnotes providing additional comments bibliographic details and further context Written as an accessible account of the history of the subject this book is suitable not only for graph theorists but also for anyone interested in learning about the history of this fascinating subject Some basic knowledge of linear algebra and group theory would be helpful but is certainly not essential   Combinatorial & Computational Mathematics Sungpyo Hong,2001 This book describes and summarizes past work in important areas of combinatorics and computation as well as gives directions for researchers working in these areas in the 21st century It contains primarily survey papers and presents original research by Peter Fishburn Jim Ho Kwak Jaeun Lee K H Kim F W Roush and Susan Williams The papers deal with some of the most exciting and promising developments in the areas of coding theory in relation to number theory lattice theory and its applications graph theory and its applications topological techniques in combinatorics symbolic dynamics and mathematical social science Contents Monte Carlo and Quasi Monte Carlo Methods for Numerical Integration H Faure Theoretical Approaches to Judgement and Choice P Fishburn Combinatorial Aspects of Mathematical Social Science K H Kim Twelve Views of Matroid Theory J P S Kung Enumeration of Graph Coverings Surface Branched Coverings and Related Group Theory J H Kwak An Overview of the Poset of Irreducibles G Markowsky Number Theory and Public Key Cryptography D Pointcheval Some

Applications of Graph Theory F Roberts Duality and Its Consequences for Ordered Cohomology of Finite Type Subshifts K H Kim et al Simple Maximum Likelihood Methods for the Optical Mapping Problem V Danc k M S Waterman Readership Researchers graduate students and advanced undergraduates in combinatorics and computational mathematics

    <u>Functional Calculus</u> Kamal Shah,Baver Okutmuştur,2020-06-17 The aim of this book is to present a broad overview of the theory and applications related to functional calculus The book is based on two main subject areas matrix calculus and applications of Hilbert spaces Determinantal representations of the core inverse and its generalizations new series formulas for matrix exponential series results on fixed point theory and chaotic graph operations and their fundamental group are contained under the umbrella of matrix calculus In addition numerical analysis of boundary value problems of fractional differential equations are also considered here In addition reproducing kernel Hilbert spaces spectral theory as an application of Hilbert spaces and an analysis of PM10 fluctuations and optimal control are all contained in the applications of Hilbert spaces The concept of this book covers topics that will be of interest not only for students but also for researchers and professors in this field of mathematics The authors of each chapter convey a strong emphasis on theoretical foundations in this book   **Canadian Journal of Mathematics** ,1994-12

The Top Books of the Year Graphs Groups And Surfaces The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "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 prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Graphs Groups And Surfaces : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling 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 captivating 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 exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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