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Graphs on Surfaces and Their Applications

Graphs On Surfaces And Their Applications

Kunio Murasugi

Graphs On Surfaces And Their Applications:

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 **Graphs on Surfaces** Joanna A. Ellis-Monaghan,Iain Moffatt,2013-06-28 Graphs on Surfaces Dualities Polynomials and Knots offers an accessible and comprehensive treatment of recent developments on generalized duals of graphs on surfaces and their applications The authors illustrate the interdependency between duality medial graphs and knots how this interdependency is reflected in algebraic invariants of graphs and knots and how it can be exploited to solve problems in graph and knot theory Taking a constructive approach the authors emphasize how generalized duals and related ideas arise by localizing classical constructions such as geometric duals and Tait graphs and then removing artificial restrictions in these constructions to obtain full extensions of them to embedded graphs The authors demonstrate the benefits of these generalizations to embedded graphs in chapters describing their applications to graph polynomials and knots Graphs on Surfaces Dualities Polynomials and Knots also provides a self contained introduction to graphs on surfaces generalized duals topological graph polynomials and knot polynomials that is accessible both to graph theorists and to knot theorists Directed at those with some familiarity with basic graph theory and knot theory this book is appropriate for graduate students and researchers in either area Because the area is advancing so rapidly the authors give a comprehensive overview of the topic and include a robust bibliography aiming to provide the reader with the necessary foundations to stay abreast of the field The reader will come away from the text convinced of advantages of considering these higher genus analogues of constructions of plane and abstract graphs and with a good understanding of how they arise **Graph Theory and Its Applications** Jonathan L. Gross,Jay Yellen,2005-09-22 Already an international bestseller with the release of this greatly enhanced second edition Graph Theory and Its Applications is now an even better choice as a textbook for a variety of courses a textbook that will continue to serve your students as a reference for years to come The superior explanations broad coverage and abundance **Research Topics in Graph Theory and Its Applications** Vadim Zverovich,2019-06-24 This book considers a number of research topics in graph theory and its applications including ideas devoted to alpha discrepancy

strongly perfect graphs reconstruction conjectures graph invariants hereditary classes of graphs and embedding graphs on topological surfaces It also discusses applications of graph theory such as transport networks and hazard assessments based on unified networks The book is ideal for developers of grant proposals and researchers interested in exploring new areas of graph theory and its applications **Handbook of Discrete and Computational Geometry** Csaba D. Toth,Joseph O'Rourke,Jacob E. Goodman,2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography Knot Theory and Its Applications Kunio Murasugi,2009-12-29 Knot theory is a concept in algebraic topology that has found applications to a variety of mathematical problems as well as to problems in computer science biological and medical research and mathematical physics This book is directed to a broad audience of researchers beginning graduate students and senior undergraduate students in these fields The book contains most of the fundamental classical facts about the theory such as knot diagrams braid representations Seifert surfaces tangles and Alexander polynomials also included are key newer developments and special topics such as chord diagrams and covering spaces The work introduces the fascinating study of knots and provides insight into applications to such studies as DNA research and graph theory In addition each chapter includes a supplement that consists of interesting historical as well as mathematical comments The author clearly outlines what is known and what is not known about knots He has been careful to avoid advanced mathematical terminology or intricate techniques in algebraic topology or group theory There are numerous diagrams and exercises relating the material The study of Jones polynomials and the Vassiliev invariants are closely examined The book develops knot theory from an intuitive geometric combinatorial point of view avoiding completely more advanced concepts and techniques from algebraic topology Thus the emphasis is on a lucid and intuitive exposition accessible to a broader audience The book written in a stimulating and original style will serve as a first approach to this interesting field for readers with various backgrounds in mathematics physics etc It is the first text developing recent topics as the Jones polynomial and Vassiliev invariants on a level accessible also for non specialists in the field Zentralblatt Math *Introduction to Bond Graphs and their Applications* Jean

U. Thoma,2016-05-04 Introduction to Bond Graphs and Their Applications is an introductory text on bond graphs and their applications in the field of engineering The applications of bond graphs in mechanical engineering and design fluid mechanics electronic data processing and thermal and thermodynamic systems are discussed This book is comprised of eight chapters and begins by comparing the different kinds of graphs diagrams and models before turning to the fundamentals of bond graphs The next chapter introduces the reader to the systematic application of bond graphs in mechanical engineering and design fluid power engineering sometimes called oil hydraulics electrotechnique and electronics and thermodynamics The use of bond graphs in automatic computer programming with the ENPORT program is also described The final chapter is devoted to inertia and resistance fields linear two ports in different causalities thermodynamics of flow processes electromechanical components systems with distributed parameters and force and velocity as effort or flow This monograph is intended primarily for all engineers interested in representing simple or complex engineering systems and should also be of value to students in the different engineering disciplines mechanics fluid mechanics and electronics with electromechanical power conversion or thermodynamics   Advanced Graph Theory Dr. Sriraj M. A.,Prof. Latharani H.M.,Prof. Somashekar P.,Dr. Pavithra M.,2024-12-12 Advanced Graph Theory is mathematical foundations algorithms and applications of graph theory Topics such as connectivity coloring network flows and spectral graph theory this both classical and modern developments It provides rigorous proofs real world applications and advanced techniques used in computer science optimization and combinatorial mathematics Suitable for researchers graduate students and professionals the balances theoretical depth with practical insights making it an essential resource for those seeking a deeper understanding of graph structures and their complexities   **Gateways: Unveiling the Mysteries of Topological Graph Theory** Pasquale De Marco,2025-03-09 Embark on a captivating journey through the world of topological graph theory a captivating field that unveils the profound interplay between topology and graph theory This comprehensive and engaging book offers a comprehensive exposition of the fundamental concepts diverse applications and recent advancements in topological graph theory catering to a wide audience of mathematicians computer scientists and anyone fascinated by the intricate world of graphs and surfaces Unravel the mysteries of graph imbeddings delving into the intricate connections between graphs and surfaces Explore the concept of genus a captivating measure of the complexity of graph imbeddings and uncover the profound implications of Ringel Youngs theorem a groundbreaking result that revolutionized the field of graph theory Discover the wide ranging applications of topological graph theory spanning diverse fields such as computer science network analysis physics and biology Learn how topological graph theory empowers us to solve complex problems in network design data analysis and scientific modeling Navigate through a wealth of captivating examples illuminating figures and thought provoking exercises all carefully crafted to enhance your understanding and deepen your appreciation for topological graph theory Engage with the cutting edge research and unsolved problems at the forefront of topological graph theory gaining

insights into the future directions and open challenges in this captivating field Written with clarity and rigor this book serves as an indispensable resource for mathematicians computer scientists and anyone seeking to delve into the captivating realm of topological graph theory Whether you are a seasoned researcher a budding student or simply a curious explorer of the intricate world of graphs and networks this book promises an enlightening and intellectually stimulating experience If you like this book write a review **Clifford Algebras and their Applications in Mathematical Physics** John Ryan,Wolfgang Sprößig,2012-12-06 *Medical Image Computing and Computer-Assisted Intervention – MICCAI 2015* Nassir Navab,Joachim Hornegger,William M. Wells,Alejandro Frangi,2015-09-28 The three volume set LNCS 9349 9350 and 9351 constitutes the refereed proceedings of the 18th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2015 held in Munich Germany in October 2015 Based on rigorous peer reviews the program committee carefully selected 263 revised papers from 810 submissions for presentation in three volumes The papers have been organized in the following topical sections quantitative image analysis I segmentation and measurement computer aided diagnosis machine learning computer aided diagnosis automation quantitative image analysis II classification detection features and morphology advanced MRI diffusion fMRI DCE quantitative image analysis III motion deformation development and degeneration quantitative image analysis IV microscopy fluorescence and histological imagery registration method and advanced applications reconstruction image formation advanced acquisition computational imaging modelling and simulation for diagnosis and interventional planning computer assisted and image guided interventions **Clifford Algebras and their Applications in Mathematical Physics** Rafał Abłamowicz,2000 The second part of a two volume set concerning the field of Clifford geometric algebra this work consists of thematically organized chapters that provide a broad overview of cutting edge topics in mathematical physics and the physical applications of Clifford algebras from applications such as complex distance potential theory supersymmetry and fluid dynamics to Fourier analysis the study of boundary value problems and applications to mathematical physics and Schwarzian derivatives in Euclidean space Among the mathematical topics examined are generalized Dirac operators holonomy groups monogenic and hypermonogenic functions and their derivatives quaternionic Beltrami equations Fourier theory under Mobius transformations Cauchy Reimann operators and Cauchy type integrals 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   **The Theory of the Jahn-Teller Effect** Arnout Ceulemans,2022-09-29 This book provides a comprehensive discussion of the Jahn Teller Effect JTE focusing on the boson fermion interaction While current research is concerned with measuring and calculating ever more sophisticated and complex manifestations of the JT effect the present volume takes away the epicycles of the theory and focuses on the symmetry dilemma at its core When fermions and bosons meet they get entangled and form a new dynamic reality According to the rules of Molecular Symmetry this reality is limited to a small set of patterns with degeneracy cardinalities 2 3 4 5 and 6 The novelty of the book is that it adopts a unique mathematical technique known as the Bargmann Fock representation and treats all degeneracies in detail So far this method was only applied to the simplest doublet case therefore its extension to the entire range of cases offers a new unified perspective This volume will help the reader acquire a clear understanding of the JT effect discover its universal mechanism and it will be a great tool for researchers and graduates working on this topic   **Spherical Techniques and Their Applications in a Scene Graph System: Collision Detection and Occlusion Culling** Christoph Fünfzig,2007   **Graphs and Patterns in Mathematics and Theoretical Physics** Mikhail Lyubich,Leon Armenovich Takhtadzhi︠a︡n,2005 The Stony Brook Conference Graphs and Patterns in Mathematics and Theoretical Physics was dedicated to Dennis Sullivan in honor of his sixtieth birthday The event s scientific content which was suggested by Sullivan was largely based on mini courses and survey lectures The main idea was to help researchers and graduate students in mathematics and theoretical physics who encounter graphs in their research to overcome conceptual barriers The collection begins with Sullivan s paper Sigma models and string topology which describes a background algebraic structure for the sigma model based on algebraic topology and transversality Other contributions to the volume were organized into five sections Feynman Diagrams Algebraic Structures Manifolds Invariants and Mirror Symmetry Combinatorial Aspects of Dynamics and Physics These sections along with more research oriented articles contain the following surveys Feynman diagrams for pedestrians and mathematicians by M Polyak Notes on universal algebra by A Voronov Unimodal maps and hierarchical models by M Yampolsky and Quantum geometry in action big bang and black holes by A Ashtekar This comprehensive volume is suitable for graduate students and research mathematicians interested in graph theory and its applications in mathematics and physics   *2023 MATRIX Annals* David R. Wood,Alison M. Etheridge,Jan de Gier,Nalini Joshi,2025-07-02 MATRIX is Australia s residential mathematical research institute It facilitates new collaborations and mathematical advances through intensive residential research programs each 1 2 weeks in duration This book is a scientific record of the 14 research programs held at MATRIX in 2023 including combined events with the Mathematisches Forschungsinstitut Oberwolfach MFO and with the Research Institute for Mathematical Sciences Kyoto University RIMS   **Intelligent Imaging and Analysis** DaeEun Kim,Dosik Hwang,2020-03-05 Imaging and analysis are widely involved in various research fields including biomedical applications

medical imaging and diagnosis computer vision autonomous driving and robot controls Imaging and analysis are now facing big changes regarding intelligence due to the breakthroughs of artificial intelligence techniques including deep learning Many difficulties in image generation reconstruction de noising skills artifact removal segmentation detection and control tasks are being overcome with the help of advanced artificial intelligence approaches This Special Issue focuses on the latest developments of learning based intelligent imaging techniques and subsequent analyses which include photographic imaging medical imaging detection segmentation medical diagnosis computer vision and vision based robot control These latest technological developments will be shared through this Special Issue for the various researchers who are involved with imaging itself or are using image data and analysis for their own specific purposes **Approximation and Complexity in Numerical Optimization** Panos M. Pardalos,2013-06-29 There has been much recent progress in approximation algorithms for nonconvex continuous and discrete problems from both a theoretical and a practical perspective In discrete or combinatorial optimization many approaches have been developed recently that link the discrete universe to the continuous universe through geomet ric analytic and algebraic techniques Such techniques include global optimization formulations semidefinite programming and spectral theory As a result new ap proximate algorithms have been discovered and many new computational approaches have been developed Similarly for many continuous nonconvex optimization prob lems new approximate algorithms have been developed based on semidefinite pro gramming and new randomization techniques On the other hand computational complexity originating from the interactions between computer science and numeri cal optimization is one of the major theories that have revolutionized the approach to solving optimization problems and to analyzing their intrinsic difficulty The main focus of complexity is the study of whether existing algorithms are efficient for the solution of problems and which problems are likely to be tractable The quest for developing efficient algorithms leads also to elegant general approaches for solving optimization problems and reveals surprising connections among problems and their solutions A conference on Approximation and Complexity in Numerical Optimization Con tinuous and Discrete Problems was held during February 28 to March 2 1999 at the Center for Applied Optimization of the University of Florida

Graph Classes Andreas Brandstadt,Van Bang Le,Jeremy P. Spinrad,1999-01-01 This well organized reference is a definitive encyclopedia for the literature on graph classes It contains a survey of more than 200 classes of graphs organized by types of properties used to define and characterize the classes citing key theorems and literature references for each The authors state results without proof providing readers with easy access to far more key theorems than are commonly found in other mathematical texts Interconnections between graph classes are also provided to make the book useful to a variety of readers

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