

Algorithms
and Computation
in Mathematics

Volume 9

Sergei Matveev

Algorithmic Topology and Classification of 3-Manifolds

Second Edition

 Springer

Algorithmic Topology And Classification Of 3manifolds

David Kirk



Algorithmic Topology And Classification Of 3-manifolds:

Algorithmic Topology and Classification of 3-Manifolds Sergei Matveev, 2007-08-13 From the reviews of the 1st edition This book provides a comprehensive and detailed account of different topics in algorithmic 3 dimensional topology culminating with the recognition procedure for Haken manifolds and including the up to date results in computer enumeration of 3 manifolds Originating from lecture notes of various courses given by the author over a decade the book is intended to combine the pedagogical approach of a graduate textbook without exercises with the completeness and reliability of a research monograph All the material with few exceptions is presented from the peculiar point of view of special polyhedra and special spines of 3 manifolds This choice contributes to keep the level of the exposition really elementary In conclusion the reviewer subscribes to the quotation from the back cover the book fills a gap in the existing literature and will become a standard reference for algorithmic 3 dimensional topology both for graduate students and researchers Zentralblatt f r Mathematik 2004 For this 2nd edition new results new proofs and commentaries for a better orientation of the reader have been added In particular in Chapter 7 several new sections concerning applications of the computer program 3 Manifold Recognizer have been included

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Algorithmic Topology and Classification Of 3-Manifolds Sergei Matveev, 2014-01-15 Algorithmic Topology and Classification of 3-Manifolds

Sergei Matveev, 2013-04-17 The book is devoted to algorithmic low dimensional topology This branch of mathematics has recently been undergoing an intense development On the one hand the exponential advancement of computer technologies has made it possible to conduct sophisticated computer experiments and to implement algorithmic solutions which have in turn provided a motivation to search for new and better algorithms On the other hand low dimensional topology has received an additional boost because of the discovery of numerous connections with theoretical physics There is also another deep

reason why algorithmic topology has received a lot of attention It is that a search for algorithmic solutions generally proves to be a rich source of well stated mathematical problems Speaking out of my experience it seems that an orientation towards how to rather than just how is serves as a probing stone for choosing among possible directions of research much like problems in mechanics led once to the development of calculus

Geometrisation of 3-manifolds, 2010 The Geometrisation Conjecture was proposed by William Thurston in the mid 1970s in order to classify compact 3 manifolds by means of a canonical decomposition along essential embedded surfaces into pieces that possess geometric structures It contains the famous Poincaré Conjecture as a special case In 2002 Grigory Perelman announced a proof of the Geometrisation Conjecture based on Richard Hamilton's Ricci flow approach and presented it in a series of three celebrated arXiv preprints Since then there has been an ongoing effort to understand Perelman's work by giving more detailed and accessible presentations of his ideas or alternative arguments for various parts of the proof This book is a contribution to this endeavour Its two main innovations are first a simplified version of Perelman's Ricci flow with surgery which is called Ricci flow with bubbling off and secondly a completely different and original approach to the last step of the proof In addition special effort has been made to simplify and streamline the overall structure of the argument and make the various parts independent of one another A complete proof of the Geometrisation Conjecture is given modulo pre Perelman results on Ricci flow Perelman's results on the functional and solutions as well as the Colding Minicozzi extinction paper The book can be read by anyone already familiar with these results or willing to accept them as black boxes The structure of the proof is presented in a lengthy introduction which does not require knowledge of geometric analysis The bulk of the proof is the existence theorem for Ricci flow with bubbling off which is treated in parts I and II Part III deals with the long time behaviour of Ricci flow with bubbling off Part IV finishes the proof of the Geometrisation Conjecture

Advances in Applied and Computational Topology American Mathematical Society. Short Course on Computational Topology, 2012-07-05 What is the shape of data How do we describe flows Can we count by integrating How do we plan with uncertainty What is the most compact representation These questions while unrelated become similar when recast into a computational setting Our input is a set of finite discrete noisy samples that describes an abstract space Our goal is to compute qualitative features of the unknown space It turns out that topology is sufficiently tolerant to provide us with robust tools This volume is based on lectures delivered at the 2011 AMS Short Course on Computational Topology held January 4-5 2011 in New Orleans Louisiana The aim of the volume is to provide a broad introduction to recent techniques from applied and computational topology Afra Zomorodian focuses on topological data analysis via efficient construction of combinatorial structures and recent theories of persistence Marian Mrozek analyzes asymptotic behavior of dynamical systems via efficient computation of cubical homology Justin Curry Robert Ghrist and Michael Robinson present Euler Calculus an integral calculus based on the Euler characteristic and apply it to sensor and network data aggregation Michael Erdmann explores the relationship of topology

planning and probability with the strategy complex Jeff Erickson surveys algorithms and hardness results for topological optimization problems Low-dimensional and Symplectic Topology Michael Usher, 2011 Every eight years since 1961 the University of Georgia has hosted a major international topology conference aimed at disseminating important recent results and bringing together researchers at different stages of their careers This volume contains the proceedings of the 2009 conference which includes survey and research articles concerning such areas as knot theory contact and symplectic topology 3 manifold theory geometric group theory and equivariant topology Among other highlights of the volume a survey article by Stefan Friedl and Stefano Vidussi provides an accessible treatment of their important proof of Taubes conjecture on symplectic structures on the product of a 3 manifold and a circle and an intriguing short article by Dennis Sullivan opens the door to the use of modern algebraic topological techniques in the study of finite dimensional models of famously difficult problems in fluid dynamics Continuing what has become a tradition this volume contains a report on a problem session held at the conference discussing a variety of open problems in geometric topology **In the Tradition of Thurston II** Ken'ichi Ohshika, Athanase Papadopoulos, 2022-08-02 The purpose of this volume and of the other volumes in the same series is to provide a collection of surveys that allows the reader to learn the important aspects of William Thurston's heritage Thurston's ideas have altered the course of twentieth century mathematics and they continue to have a significant influence on succeeding generations of mathematicians The topics covered in the present volume include complex hyperbolic Kleinian groups Mbius structures hyperbolic ends cone 3 manifolds Thurston's norm surgeries in representation varieties triangulations spaces of polygonal decompositions and of singular flat structures on surfaces combination theorems in the theories of Kleinian groups hyperbolic groups and holomorphic dynamics the dynamics and iteration of rational maps automatic groups and the combinatorics of right angled Artin groups Toric Topology Victor M. Buchstaber, Taras E. Pano, 2015-07-15 This book is about toric topology a new area of mathematics that emerged at the end of the 1990s on the border of equivariant topology algebraic and symplectic geometry combinatorics and commutative algebra It has quickly grown into a very active area with many links to other areas of mathematics and continues to attract experts from different fields The key players in toric topology are moment angle manifolds a class of manifolds with torus actions defined in combinatorial terms Construction of moment angle manifolds relates to combinatorial geometry and algebraic geometry of toric varieties via the notion of a quasitoric manifold Discovery of remarkable geometric structures on moment angle manifolds led to important connections with classical and modern areas of symplectic Lagrangian and non Kaehler complex geometry A related categorical construction of moment angle complexes and polyhedral products provides for a universal framework for many fundamental constructions of homotopical topology The study of polyhedral products is now evolving into a separate subject of homotopy theory A new perspective on torus actions has also contributed to the development of classical areas of algebraic topology such as complex cobordism This book includes many open problems and is addressed to

experts interested in new ideas linking all the subjects involved as well as to graduate students and young researchers ready to enter this beautiful new area **Lectures on Geometry** Edward Witten, Martin Bridson, Helmut Hofer, Marc Lackenby, Rahul Pandharipande, 2017-02-09 This volume contains a collection of papers based on lectures delivered by distinguished mathematicians at Clay Mathematics Institute events over the past few years It is intended to be the first in an occasional series of volumes of CMI lectures Although not explicitly linked the topics in this inaugural volume have a common flavour and a common appeal to all who are interested in recent developments in geometry They are intended to be accessible to all who work in this general area regardless of their own particular research interests

Algorithmic Topology And Clabification Of 3manifolds Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Algorithmic Topology And Clabification Of 3manifolds**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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