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Geometric Topology: Recent Developments

Montecatini Terme, Italy 1990

Editors: Paolo de Bartolomeis
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Geometric Topology Recent Developments

Carlo Cercignani,Mario Pulvirenti

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Geometric Topology: Recent Developments Jeff Cheeger,Mikhail Gromov,Christian Okonek,Pierre Pansu,2006-11-17 Geometric Topology can be defined to be the investigation of global properties of a further structure e g differentiable Riemannian complex algebraic etc one can impose on a topological manifold At the C I M E session in Montecatini in 1990 three courses of lectures were given onrecent developments in this subject which is nowadays emerging as one of themost fascinating and promising fields of contemporary mathematics The notesof these courses are collected in this volume and can be described as 1 the geometry and the rigidity of discrete subgroups in Lie groups especially in the case of lattices in semi simple groups 2 the study of the critical points of the distance function and its appication to the understanding of the topology of Riemannian manifolds 3 the theory of moduli space of instantons as a tool for studying the geometry of low dimensional manifolds CONTENTS J Cheeger Critical Points of Distance Functions and Applications to Geometry M Gromov P Pansu Rigidity of Lattices An Introduction Chr Okonek Instanton Invariants and Algebraic Surfaces   Geometric Topology : Recent Developments Paolo De Bartolomeis,Franco Tricerri,1991   *The Hyperbolic Cauchy Problem* Kunihiko Kajitani,1991

Nonequilibrium Problems in Many-Particle Systems Carlo Cercignani,Mario Pulvirenti,1993-08-30 This volume contains the text of four sets of lectures delivered at the third session of the Summer School organized by C I M E Centro Internazionale Matematico Estivo These texts are preceded by an introduction written by C Cercignani and M Pulvirenti which summarizes the present status in the area of Nonequilibrium Problems in Many Particle Systems and tries to put the contents of the different sets of lectures in the right perspective in order to orient the reader The lectures deal with the global existence of weak solutions for kinetic models and related topics the basic concepts of non standard analysis and their application to gas kinetics the kinetic equations for semiconductors and the entropy methods in the study of hydrodynamic limits CONTENTS C Cercignani M Pulvirenti Nonequilibrium Problems in Many Particle Systems An Introduction L Arkeryd Some Examples of NSA in Kinetic Theory P L Lions Global Solutions of Kinetic Models and Related Problems P A Markowich Kinetic Models for Semiconductors S R S Varadhan Entropy Methods in Hydrodynamic Scaling   *Recent Developments in Algebraic Geometry* Hamid Abban,Gavin Brown,Alexander Kasprzyk,Shigefumi Mori,2022-11-03 Written in celebration of Miles Reid s 70th birthday this illuminating volume contains 11 papers by leading mathematicians in and around algebraic geometry broadly related to the themes and interests of Reid s varied career Just as in Reid s own scientific output some of the papers give comprehensive accounts of the state of the art of foundational matters while others give expositions of subject areas or techniques in concrete terms Reid has been one of the major expositors of algebraic geometry and a great influence on many in this field this book hopes to inspire a new generation of graduate students and researchers in his tradition   **Recent Progress in General Topology II.** A. Arhangel'skii,2002 The book presents surveys describing recent developments in most of the primary subfields of General Topology and its applications to Algebra and Analysis during the

last decade It follows freely the previous edition North Holland 1992 Open Problems in Topology North Holland 1990 and Handbook of Set Theoretic Topology North Holland 1984 The book was prepared in connection with the Prague Topological Symposium held in 2001 During the last 10 years the focus in General Topology changed and therefore the selection of topics differs slightly from those chosen in 1992 The fol *Geometric Topology and Shape Theory* Sibe Mardesic,Jack Segal,2006-11-14 The aim of this international conference the third of its type was to survey recent developments in Geometric Topology and Shape Theory with an emphasis on their interaction The volume contains original research papers and carefully selected survey of currently active areas The main topics and themes represented by the papers of this volume include decomposition theory cell like mappings and CE equivalent compacta covering dimension versus cohomological dimension ANR s and LCn compacta homology manifolds embeddings of continua into manifolds complement theorems in shape theory approximate fibrations and shape fibrations fibered shape exact homologies and strong shape theory

Comparison Theorems in Riemannian Geometry Jeff Cheeger,David G. Ebin,2025-07-11 The central theme of this book is the interaction between the curvature of a complete Riemannian manifold and its topology and global geometry The first five chapters are preparatory in nature They begin with a very concise introduction to Riemannian geometry followed by an exposition of Toponogov s theorem the first such treatment in a book in English Next comes a detailed presentation of homogeneous spaces in which the main goal is to find formulas for their curvature A quick chapter of Morse theory is followed by one on the injectivity radius Chapters 6 9 deal with many of the most relevant contributions to the subject in the years 1959 to 1974 These include the pinching or sphere theorem Berger s theorem for symmetric spaces the differentiable sphere theorem the structure of complete manifolds of non negative curvature and finally results about the structure of complete manifolds of non positive curvature Emphasis is given to the phenomenon of rigidity namely the fact that although the conclusions which hold under the assumption of some strict inequality on curvature can fail when the strict inequality on curvature can fail when the strict inequality is relaxed to a weak one the failure can happen only in a restricted way which can usually be classified up to isometry Much of the material particularly the last four chapters was essentially state of the art when the book first appeared in 1975 Since then the subject has exploded but the material covered in the book still represents an essential prerequisite for anyone who wants to work in the field SPDE in Hydrodynamics: Recent Progress and Prospects Sergio Albeverio,Franco Flandoli,Yakov G. Sinai,2008-04-01 Of the three lecture courses making up the CIME summer school on Fluid Dynamics at Cetraro in 2005 reflected in this volume the first due to Sergio Albeverio describes deterministic and stochastic models of hydrodynamics In the second course Franco Flandoli starts from 3D Navier Stokes equations and ends with turbulence Finally Yakov Sinai in the 3rd course describes some rigorous mathematical results for multidimensional Navier Stokes systems and some recent results on the one dimensional Burgers equation with random forcing **Combinatorial and Geometric Group Theory** Sean Cleary,2002 This volume grew out of two AMS conferences

held at Columbia University New York NY and the Stevens Institute of Technology Hoboken NJ and presents articles on a wide variety of topics in group theory Readers will find a variety of contributions including a collection of over 170 open problems in combinatorial group theory three excellent survey papers on boundaries of hyperbolic groups on fixed points of free group automorphisms and on groups of automorphisms of compactRiemann surfaces and several original research papers that represent the diversity of current trends in combinatorial and geometric group theory The book is an excellent reference source for graduate students and research mathematicians interested in various aspects of group theory

Recent Progress in Homotopy Theory Donald M. Davis,2002 This volume presents the proceedings from the month long program held at Johns Hopkins University Baltimore MD on homotopy theory sponsored by the Japan U S Mathematics Institute JAMI The book begins with historical accounts on the work of Professors Peter Landweber and Stewart Priddy Central among the other topics are the following 1 classical and nonclassical theory of H spaces compact groups and finite groups 2 classical and chromatic homotopy theory andlocalization 3 classical and topological Hochschild cohomology 4 elliptic cohomology and its relation to Moonshine and topological modular forms and 5 motivic cohomology and Chow rings This volume surveys the current state of research in these areas and offers an overview of futuredirections Riemannian Geometry Peter Petersen,2013-06-29 This book is meant to be an introduction to Riemannian geometry The reader is assumed to have some knowledge of standard manifold theory including basic theory of tensors forms and Lie groups At times we shall also assume familiarity with algebraic topology and de Rham cohomology Specifically we recommend that the reader is familiar with texts like 14 or 76 vol 1 For the readers who have only learned something like the first two chapters of 65 we have an appendix which covers Stokes theorem Cech cohomology and de Rham cohomology The reader should also have a nodding acquaintance with ordinary differential equations For this a text like 59 is more than sufficient Most of the material usually taught in basic Riemannian geometry as well as several more advanced topics is presented in this text Many of the theorems from Chapters 7 to 11 appear for the first time in textbook form This is particularly surprising as we have included essentially only the material students ofRiemannian geometry must know The approach we have taken deviates in some ways from the standard path First and foremost we do not discuss variational calculus which is usually the sine qua non of the subject Instead we have taken a more elementary approach that simply uses standard calculus together with some techniques from differential equations **Recent Progress in General Topology III** K.P. Hart,J. van Mill,P. Simon,2013-12-11 The book presents surveys describing recent developments in most of the primary subfields of General Topology and its applications to Algebra and Analysis during the last decade following the previous editions North Holland 1992 and 2002 The book was prepared in connection with the Prague Topological Symposium held in 2011 During the last 10 years the focus in General Topology changed and therefore the selection of topics differs from that chosen in 2002 The following areas experienced significant developments Fractals Coarse Geometry Topology Dimension Theory Set Theoretic

Topology and Dynamical Systems   The Development of the Number Field Sieve Arjen K. Lenstra,H. W. Lenstra,1993-08-30 The number field sieve is an algorithm for finding the prime factors of large integers It depends on algebraic number theory Proposed by John Pollard in 1988 the method was used in 1990 to factor the ninth Fermat number a 155 digit integer The algorithm is most suited to numbers of a special form but there is a promising variant that applies in general This volume contains six research papers that describe the operation of the number field sieve from both theoretical and practical perspectives Pollard s original manuscript is included In addition there is an annotated bibliography of directly related literature   *Recent Progress in General Topology II* M. Husek,J. van Mill,2002-11-13 The book presents surveys describing recent developments in most of the primary subfields of General Topology and its applications to Algebra and Analysis during the last decade It follows freely the previous edition North Holland 1992 Open Problems in Topology North Holland 1990 and Handbook of Set Theoretic Topology North Holland 1984 The book was prepared in connection with the Prague Topological Symposium held in 2001 During the last 10 years the focus in General Topology changed and therefore the selection of topics differs slightly from those chosen in 1992 The following areas experienced significant developments Topological Groups Function Spaces Dimension Theory Hyperspaces Selections Geometric Topology including Infinite Dimensional Topology and the Geometry of Banach Spaces Of course not every important topic could be included in this book Except surveys the book contains several historical essays written by such eminent topologists as R D Anderson W W Comfort M Henriksen S Marde i J Nagata M E Rudin J M Smirnov several reminiscences of L Vietoris are added In addition to extensive author and subject indexes a list of all problems and questions posed in this book are added List of all authors of surveys A Arhangel skii J Baker and K Kunen H Bennett and D Lutzer J Dijkstra and J van Mill A Dow E Glasner G Godefroy G Gruenhage N Hindman and D Strauss L Hola and J Pelant K Kawamura H P Kuenzi W Marciszewski K Martin and M Mislove and M Reed R Pol and H Torunczyk D Repovs and P Semenov D Shakhmatov S Solecki M Tkachenko   **Recent Progress in General Topology II** M. Husek,J. van Mill,2002-11-13 The book presents surveys describing recent developments in most of the primary subfields ofGeneral Topology and its applications to Algebra and Analysis during the last decade It follows freelythe previous edition North Holland 1992 Open Problems in Topology North Holland 1990 and Handbook of Set Theoretic Topology North Holland 1984 The book was prepared inconnection with the Prague Topological Symposium held in 2001 During the last 10 years the focusin General Topology changed and therefore the selection of topics differs slightly from thosechosen in 1992 The following areas experienced significant developments Topological Groups Function Spaces Dimension Theory Hyperspaces Selections Geometric Topology includingInfinite Dimensional Topology and the Geometry of Banach Spaces Of course not every important topic could be included in this book Except surveys the book contains several historical essays written by such eminent topologists as R D Anderson W W Comfort M Henriksen S Marde i J Nagata M E Rudin J M Smirnov several reminiscences of L Vietoris are added In addition to extensive author and subject indexes a list of all problems and questions

posed in this book are added List of all authors of surveys A Arhangel skii J Baker and K Kunen H Bennett and D Lutzer J Dijkstra and J van Mill A Dow E Glasner G Godefroy G Gruenhage N Hindman and D Strauss L Hola and J Pelant K Kawamura H P Kuenzi W Marciszewski K Martin and M Mislove and M Reed R Pol and H Torunczyk D Repovs and P Semenov D Shakhmatov S Solecki M Tkachenko *Symposium on Anomalies, Geometry, Topology* William A. Bardeen,Alan R. White,1985 *Current Developments in Mathematics* ,2005 U.S. Government Research & Development Reports ,1970 **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,2000

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