

Progress in Mathematics

Misha Gromov
with Appendices by
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Metric Structures For Riemannian and Non-Riemannian Spaces

Edited by J. Laffontaine and P. Pansu
English translations by Thane Michael Bates

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Metric Structures for Riemannian and Non-Riemannian Spaces Mikhail Gromov, 2001-04-20 This book is an English translation of the famous Green Book by Lafontaine and Pansu 1979 It has been enriched and expanded with new material to reflect recent progress Additionally four appendices by Gromov on Levy s inequality by Pansu on quasiconvex domains by Katz on systoles of Riemannian manifolds and by Semmes overiewing analysis on metric spaces with measures as well as an extensive bibliography and index round out this unique and beautiful book *Metric Structures for Riemannian and Non-Riemannian Spaces* Mikhail Gromov, 2006-12-22 Metric theory has undergone a dramatic phase transition in the last decades when its focus moved from the foundations of real analysis to Riemannian geometry and algebraic topology to the theory of infinite groups and probability theory The new wave began with seminal papers by Svarc and Milnor on the growth of groups and the spectacular proof of the rigidity of lattices by Mostow This progress was followed by the creation of the asymptotic metric theory of infinite groups by Gromov The structural metric approach to the Riemannian category tracing back to Cheeger s thesis pivots around the notion of the Gromov Hausdorff distance between Riemannian manifolds This distance organizes Riemannian manifolds of all possible topological types into a single connected moduli space where convergence allows the collapse of dimension with unexpectedly rich geometry as revealed in the work of Cheeger Fukaya Gromov and Perelman Also Gromov found metric structure within homotopy theory and thus introduced new invariants controlling combinatorial complexity of maps and spaces such as the simplicial volume which is responsible for degrees of maps between manifolds During the same period Banach spaces and probability theory underwent a geometric metamorphosis stimulated by the Levy Milman concentration phenomenon encompassing the law of large numbers for metric spaces with measures and dimensions going to infinity The first stages of the new developments were presented in Gromov s course in Paris which turned into the famous Green Book by Lafontaine and Pansu 1979 The present English translation of that work has been enriched and expanded with new material to reflect recent progress Additionally four appendices by Gromov on Levy s inequality by Pansu on quasiconvex domains by Katz on systoles of Riemannian manifolds and by Semmes overiewing analysis on metric spaces with measures as well as an extensive bibliography and index round out this unique and beautiful book **Metric Structures for Riemannian and Non-Riemannian Spaces** Mikhail Gromov, 2008-11-01

This book is an English translation of the famous Green Book by Lafontaine and Pansu 1979 It has been enriched and expanded with new material to reflect recent progress Additionally four appendices by Gromov on Levy s inequality by Pansu on quasiconvex domains by Katz on systoles of Riemannian manifolds and by Semmes overiewing analysis on metric spaces with measures as well as an extensive bibliography and index round out this unique and beautiful book A Course in Metric Geometry Dmitri Burago, Yuri Burago, Sergei Ivanov, 2022-01-27 Metric geometry is an approach to geometry based on the notion of length on a topological space This approach experienced a very fast development in the last few decades and

penetrated into many other mathematical disciplines such as group theory dynamical systems and partial differential equations The objective of this graduate textbook is twofold to give a detailed exposition of basic notions and techniques used in the theory of length spaces and more generally to offer an elementary introduction into a broad variety of geometrical topics related to the notion of distance including Riemannian and Carnot Carath odory metrics the hyperbolic plane distance volume inequalities asymptotic geometry large scale coarse Gromov hyperbolic spaces convergence of metric spaces and Alexandrov spaces non positively and non negatively curved spaces The authors tend to work with easy to touch mathematical objects using easy to visualize methods The authors set a challenging goal of making the core parts of the book accessible to first year graduate students Most new concepts and methods are introduced and illustrated using simplest cases and avoiding technicalities The book contains many exercises which form a vital part of the exposition Metric and Differential Geometry Xianzhe Dai,Xiaochun Rong,2012-06-01 Metric and Differential Geometry grew out of a similarly named conference held at Chern Institute of Mathematics Tianjin and Capital Normal University Beijing The various contributions to this volume cover a broad range of topics in metric and differential geometry including metric spaces Ricci flow Einstein manifolds K hler geometry index theory hypoelliptic Laplacian and analytic torsion It offers the most recent advances as well as surveys the new developments Contributors M T Anderson J M Bismut X Chen X Dai R Harvey P Koskela B Lawson X Ma R Melrose W M ller A Naor J Simons C Sormani D Sullivan S Sun G Tian K Wildrick W Zhang **Analysis and Geometry of Markov Diffusion Operators** Dominique Bakry,Ivan Gentil,Michel Ledoux,2013-11-18 The present volume is an extensive monograph on the analytic and geometric aspects of Markov diffusion operators It focuses on the geometric curvature properties of the underlying structure in order to study convergence to equilibrium spectral bounds functional inequalities such as Poincar Sobolev or logarithmic Sobolev inequalities and various bounds on solutions of evolution equations At the same time it covers a large class of evolution and partial differential equations The book is intended to serve as an introduction to the subject and to be accessible for beginning and advanced scientists and non specialists Simultaneously it covers a wide range of results and techniques from the early developments in the mid eighties to the latest achievements As such students and researchers interested in the modern aspects of Markov diffusion operators and semigroups and their connections to analytic functional inequalities probabilistic convergence to equilibrium and geometric curvature will find it especially useful Selected chapters can also be used for advanced courses on the topic

Handbook of Differential Geometry Franki J.E. Dillen,Leopold C.A. Verstraelen,2005-11-29 In the series of volumes which together will constitute the Handbook of Differential Geometry we try to give a rather complete survey of the field of differential geometry The different chapters will both deal with the basic material of differential geometry and with research results old and recent All chapters are written by experts in the area and contain a large bibliography In this second volume a wide range of areas in the very broad field of differential geometry is discussed as there are Riemannian geometry

Lorentzian geometry Finsler geometry symplectic geometry contact geometry complex geometry Lagrange geometry and the geometry of foliations Although this does not cover the whole of differential geometry the reader will be provided with an overview of some its most important areas Written by experts and covering recent research Extensive bibliography Dealing with a diverse range of areas Starting from the basics Selected Papers on Differential Equations and Analysis ,2005 Contains translations of papers that originally appeared in the Japanese journal Sugaku This book covers a variety of topics including differential equations with free boundary singular integral operators and operator algebras It is suitable for graduate students and research mathematicians interested in analysis and differential equations *Encyclopedia of Mathematical Physics* Jean-Pierre Francoise,Gregory L. Naber,Sheung Tsun Tsou,2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy **St. Petersburg Mathematical Journal** ,2001 Comparison Properties of Diffusion Semigroups on Spaces with Lower Curvature Bounds Max-K. von Renesse,2003 Sūgaku Expositions ,2006

Submanifolds in Carnot Groups Davide Vittone,2008-05-16 The book is devoted to the study of submanifolds in the setting of Carnot groups equipped with a sub Riemannian structure particular emphasis is given to the case of Heisenberg groups A Geometric Measure Theory viewpoint is adopted and features as intrinsic perimeters Hausdorff measures area formulae calibrations and minimal surfaces are considered Area formulae for the measure of submanifolds of arbitrary codimension are obtained in Carnot groups Intrinsically regular hypersurfaces in the Heisenberg group are extensively studied suitable notions of graphs are introduced together with area formulae leading to the analysis of Plateau and Bernstein type problems **Quasiconformal Mappings and Their Applications** Saminathan Ponnusamy,2007 Quasiconformal Mappings and their Applications covers conformal invariance and conformally invariant metrics hyperbolic type metrics and hyperbolic geodesics isometries of relative metrics uniform spaces and Gromov hyperbolicity quasiregular mappings and quasiconformal mappings in n space universal Teichmüller space and related topics quasiminimizers and

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Essays on Geometry and Related Topics Etienne Ghys,2001 This monograph contains 22 original papers dedicated to Andr Haefliger by some of his mathematician friends The Bulletin of Symbolic Logic ,2001 **Israel Journal of Mathematics** Mo'atsah ha-le'umit le-mehkar ule-fituah (Israel),2008 **Bulletin (new Series) of the American Mathematical Society** ,2007 **Estimation of Distance Functions and Geodesics and Its Use for Shape Comparison and Alignment** Roberto Facundo Mémoli Techera,2005

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