

The Topological Classification of Stratified Spaces

Samuel Weinberger

The Topological Classification Of Stratified Spaces

Chicago Lectures In Mathematics Series

Annelies Wilder-Smith



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The Topological Classification of Stratified Spaces Shmuel Weinberger, 1994 This book provides the theory for stratified spaces along with important examples and applications that is analogous to the surgery theory for manifolds In the first expository account of this field Weinberger provides topologists with a new way of looking at the classification theory of singular spaces with his original results Divided into three parts the book begins with an overview of modern high dimensional manifold theory Rather than including complete proofs of all theorems Weinberger demonstrates key constructions gives convenient formulations and shows the usefulness of the technology Part II offers the parallel theory for stratified spaces Here the topological category is most completely developed using the methods of controlled topology Many examples illustrating the topological invariance and noninvariance of obstructions and characteristic classes are provided Applications for embeddings and immersions of manifolds for the geometry of group actions for algebraic varieties and for rigidity theorems are found in Part III This volume will be of interest to topologists as well as mathematicians in other fields such as differential geometry operator theory and algebraic geometry

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The Geometry and Topology of Coxeter Groups Michael W. Davis, 2025-07-30 This book now in a revised and extended second edition offers an in depth account of Coxeter groups through the perspective of geometric group theory It examines the connections between Coxeter groups and major open problems in topology related to aspherical manifolds such as the Euler Characteristic Conjecture and the Borel and Singer Conjectures The book also discusses key topics in geometric group theory and topology including Hopf's theory of ends contractible manifolds and homology spheres the Poincaré Conjecture and Gromov's theory of CAT(0) spaces and groups In addition this second edition includes new chapters on Artin groups and their Betti numbers Written by a leading expert the book is an authoritative reference on the subject

Exterior Differential Systems and Euler-Lagrange Partial Differential Equations Robert Bryant, Phillip

Griffiths, Daniel Grossman, 2003-07 In *Exterior Differential Systems* the authors present the results of their ongoing development of a theory of the geometry of differential equations focusing especially on Lagrangians and Poincaré Cartan forms. They also cover certain aspects of the theory of exterior differential systems which provides the language and techniques for the entire study. Because it plays a central role in uncovering geometric properties of differential equations the method of equivalence is particularly emphasized. In addition the authors discuss conformally invariant systems at length including results on the classification and application of symmetries and conservation laws. The book also covers the Second Variation Euler Lagrange PDE systems and higher order conservation laws. This timely synthesis of partial differential equations and differential geometry will be of fundamental importance to both students and experienced researchers working in geometric analysis.

Analytic and Geometric Study of Stratified Spaces Markus J. Pflaum, 2003-07-01 The book provides an introduction to stratification theory leading the reader up to modern research topics in the field. The first part presents the basics of stratification theory in particular the Whitney conditions and Mather's control theory and introduces the notion of a smooth structure. Moreover it explains how one can use smooth structures to transfer differential geometric and analytic methods from the arena of manifolds to stratified spaces. In the second part the methods established in the first part are applied to particular classes of stratified spaces like for example orbit spaces. Then a new de Rham theory for stratified spaces is established and finally the Hochschild cohomology theory of smooth functions on certain classes of stratified spaces is studied. The book should be accessible to readers acquainted with the basics of topology analysis and differential geometry.

Computers, Rigidity, and Moduli Shmuel Weinberger, 2020-12-08 This book is the first to present a new area of mathematical research that combines topology geometry and logic. Shmuel Weinberger seeks to explain and illustrate the implications of the general principle first emphasized by Alex Nabutovsky that logical complexity engenders geometric complexity. He provides applications to the problem of closed geodesics the theory of submanifolds and the structure of the moduli space of isometry classes of Riemannian metrics with curvature bounds on a given manifold. Ultimately geometric complexity of a moduli space forces functions defined on that space to have many critical points and new results about the existence of extrema or equilibria follow. The main sort of algorithmic problem that arises is recognition is the presented object equivalent to some standard one. If it is difficult to determine whether the problem is solvable then the original object has counterparts that are other objects that are extremely difficult to distinguish from it. Many new questions emerge about the algorithmic nature of known geometric theorems about dichotomy problems and about the metric entropy of moduli space. Weinberger studies them using tools from group theory computability differential geometry and topology all of which he explains before use. Since several examples are worked out the overarching principles are set in a clear relief that goes beyond the details of any one problem.

Unstable Modules Over the Steenrod Algebra and Sullivan's Fixed Point Set Conjecture Lionel Schwartz, 1994-06-25 A comprehensive account of one of the main directions of

algebraic topology this book focuses on the Sullivan conjecture and its generalizations and applications Lionel Schwartz collects here for the first time some of the most innovative work on the theory of modules over the Steenrod algebra including ideas on the Segal conjecture work from the late 1970s by Adams and Wilkerson and topics in algebraic group representation theory This course tested book provides a valuable reference for algebraic topologists and includes foundational material essential for graduate study

Geometry, Rigidity, and Group Actions Benson Farb, David Fisher, 2011-04-15 The study of group actions is more than a hundred years old but remains to this day a vibrant and widely studied topic in a variety of mathematic fields A central development in the last fifty years is the phenomenon of rigidity whereby one can classify actions of certain groups such as lattices in semi simple Lie groups This provides a way to classify all possible symmetries of important spaces and all spaces admitting given symmetries Paradigmatic results can be found in the seminal work of George Mostow Gergory Margulis and Robert J Zimmer among others The papers in Geometry Rigidity and Group Actions explore the role of group actions and rigidity in several areas of mathematics including ergodic theory dynamics geometry topology and the algebraic properties of representation varieties In some cases the dynamics of the possible group actions are the principal focus of inquiry In other cases the dynamics of group actions are a tool for proving theorems about algebra geometry or topology This volume contains surveys of some of the main directions in the field as well as research articles on topics of current interest

Bulletin (new Series) of the American Mathematical Society ,1998

Geometric and Spectral Analysis Pierre Albin, Dmitry Jakobson, Frédéric Rochon, 2014-12-01 In 2012 the Centre de Recherches Math matiques was at the center of many interesting developments in geometric and spectral analysis with a thematic program on Geometric Analysis and Spectral Theory followed by a thematic year on Moduli Spaces Extremality and Global Invariants This volume contains original contributions as well as useful survey articles of recent developments by participants from three of the workshops organized during these programs Geometry of Eigenvalues and Eigenfunctions held from June 4 8 2012 Manifolds of Metrics and Probabilistic Methods in Geometry and Analysis held from July 2 6 2012 and Spectral Invariants on Non compact and Singular Spaces held from July 23 27 2012 The topics covered in this volume include Fourier integral operators eigenfunctions probability and analysis on singular spaces complex geometry K hler Einstein metrics analytic torsion and Strichartz estimates This book is co published with the Centre de Recherches Math matiques

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