

# CONTEMPORARY MATHEMATICS

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## **Recent Advances in Riemannian and Lorentzian Geometries**

Krishan L. Duggal  
Ramesh Sharma  
Editors



American Mathematical Society

# Recent Advances In Riemannian And Lorentzian Geometries

**Dominic P. Clemence, Guoqing Tang**



## **Recent Advances In Riemannian And Lorentzian Geometries:**

*Recent Advances in Riemannian and Lorentzian Geometries* Krishan L. Duggal, Ramesh Sharma, 2003 This volume covers material presented by invited speakers at the AMS special session on Riemannian and Lorentzian geometries held at the annual Joint Mathematics Meetings in Baltimore Topics covered include classification of curvature related operators curvature homogeneous Einstein 4 manifolds linear stability instability singularity and hyperbolic operators of spacetimes spectral geometry of holomorphic manifolds cut loci of nilpotent Lie groups conformal geometry of almost Hermitian manifolds and also submanifolds of complex and contact spaces This volume can serve as a good reference source and provide indications for further research It is suitable for graduate students and research mathematicians interested in differential geometry

**Recent Developments in Pseudo-Riemannian Geometry** Dmitrii Vladimirovich Alekseevskii, 2008 This book provides an introduction to and survey of recent developments in pseudo Riemannian geometry including applications in mathematical physics by leading experts in the field Topics covered are Classification of pseudo Riemannian symmetric spaces Holonomy groups of Lorentzian and pseudo Riemannian manifolds Hypersymplectic manifolds Anti self dual conformal structures in neutral signature and integrable systems Neutral Kahler surfaces and geometric optics Geometry and dynamics of the Einstein universe Essential conformal structures and conformal transformations in pseudo Riemannian geometry The causal hierarchy of spacetimes Geodesics in pseudo Riemannian manifolds Lorentzian symmetric spaces in supergravity Generalized geometries in supergravity Einstein metrics with Killing leaves The book is addressed to advanced students as well as to researchers in differential geometry global analysis general relativity and string theory It shows essential differences between the geometry on manifolds with positive definite metrics and on those with indefinite metrics and highlights the interesting new geometric phenomena which naturally arise in the indefinite metric case The reader finds a description of the present state of the art in the field as well as open problems which can stimulate further research

Recent Advances in the Theory and Applications of Mass Transport José-Francisco Rodrigues, 2004 Contains both survey and research articles on methods of optimal mass transport and applications in physics

Advances in Lorentzian Geometry Matthias Plaue, Alan D. Rendall, Mike Scherfner, 2011 Offers insight into the methods and concepts of a very active field of mathematics that has many connections with physics It includes contributions from specialists in differential geometry and mathematical physics collectively demonstrating the wide range of applications of Lorentzian geometry and ranging in character from research papers to surveys to the development of new ideas

The  $p$ -Harmonic Equation and Recent Advances in Analysis Pietro Poggi-Corradini, 2005 Comprised of papers from the IIIrd Prairie Analysis Seminar held at Kansas State University this book reflects the many directions of current research in harmonic analysis and partial differential equations Included is the work of the distinguished main speaker Tadeusz Iwaniec his invited guests John Lewis and Juan Manfredi and many other leading researchers The main topic is the so called  $p$  harmonic equation which is a

family of nonlinear partial differential equations generalizing the usual Laplace equation This study of  $p$  harmonic equations touches upon many areas of analysis with deep relations to functional analysis potential theory and calculus of variations The material is suitable for graduate students and research mathematicians interested in harmonic analysis and partial differential equations

**Homotopy Theory: Relations with Algebraic Geometry, Group Cohomology, and Algebraic K-Theory** Paul Gregory Goerss, Stewart Priddy, 2004 As part of its series of Emphasis Years in Mathematics Northwestern University hosted an International Conference on Algebraic Topology The purpose of the conference was to develop new connections between homotopy theory and other areas of mathematics This proceedings volume grew out of that event Topics discussed include algebraic geometry cohomology of groups algebraic K theory and  $\mathbb{A}^1$  homotopy theory Among the contributors to the volume were Alejandro Adem Ralph L Cohen Jean Louis Loday and many others The book is suitable for graduate students and research mathematicians interested in homotopy theory and its relationship to other areas of mathematics

*Operator Algebras, Quantization, and Noncommutative Geometry* Robert S. Doran, Richard V. Kadison, 2004 John von Neumann and Marshall Stone were two giants of Twentieth Century mathematics In honor of the 100th anniversary of their births a mathematical celebration was organized featuring developments in fields where both men were major influences This volume contains articles from the AMS Special Session Operator Algebras Quantization and Noncommutative Geometry A Centennial Celebration in Honor of John von Neumann and Marshall H Stone Papers range from expository and refereed and cover a broad range of mathematical topics reflecting the fundamental ideas of von Neumann and Stone Most contributions are expanded versions of the talks and were written exclusively for this volume Included among Also featured is a reprint of P R Halmos's The Legend of John von Neumann The book is suitable for graduate students and researchers interested in operator algebras and applications including noncommutative geometry

*Affine Algebraic Geometry* Jaime Gutierrez, Vladimir Shpilrain, Jie-Tai Yu, 2005 A Special Session on affine and algebraic geometry took place at the first joint meeting between the American Mathematical Society AMS and the Real Sociedad Matematica Espanola RSME held in Seville Spain This volume contains articles by participating speakers at the Session The book contains research and survey papers discussing recent progress on the Jacobian Conjecture and affine algebraic geometry and includes a large collection of open problems It is suitable for graduate students and research mathematicians interested in algebraic geometry

*Chapel Hill Ergodic Theory Workshops* Idris Assani, 2004 This volume grew out of two ergodic theory workshops held at the University of North Carolina at Chapel Hill These events gave young researchers an introduction to active research areas and promoted interaction between young and established mathematicians Included are research and survey articles devoted to various topics in ergodic theory The book is suitable for graduate students and researchers interested in these and related areas

**Noncompact Problems at the Intersection of Geometry, Analysis, and Topology** Abbas Bahri, Sergiu Klainerman, Michael Vogelius, 2004 This proceedings volume contains articles from the

conference held at Rutgers University in honor of Haim Brezis and Felix Browder two mathematicians who have had a profound impact on partial differential equations functional analysis and geometry Mathematicians attending the conference had interests in noncompact variational problems pseudo holomorphic curves singular and smooth solutions to problems admitting a conformal or some group invariance Sobolev spaces on manifolds and configuration spaces One day of the proceedings was devoted to Einstein equations and related topics Contributors to the volume include among others Sun Yung A Chang Luis A Caffarelli Carlos E Kenig and Gang Tian The material is suitable for graduate students and researchers interested in problems in analysis and differential equations on noncompact manifolds *Wavelets, Frames and Operator Theory* Palle E. T. Jørgensen, David R. Larson, 2004 Nineteen papers are presented from a special joint session held in conjunction with the American Mathematical Society's 2003 annual meeting in Baltimore and a National Science Foundation workshop at the University of Maryland The papers distinguish themselves by often including applications as well

*Topological Algebras and Their Applications* Hugo Arizmendi, Lourdes Palacios, 2004 The Fourth International Conference on Topological Algebras and Their Applications was held in Oaxaca Mexico This meeting brought together international specialists and Mexican specialists in topological algebras locally convex and Banach spaces spectral theory and operator theory and related topics This volume contains talks presented at the conference as well as articles received in response to a call for papers some are expository and provide new insights while others contain new research The book is suitable for graduate students and research mathematicians working in topological vector spaces topological algebras and their applications *Mathematical Studies in Nonlinear Wave Propagation* Dominic P. Clemence, Guoqing Tang, 2005 Lively discussions and stimulating research were part of a five day conference on Mathematical Methods in Nonlinear Wave Propagation sponsored by the NSF and CBMS This volume is a collection of lectures and papers stemming from that event Leading experts present dynamical systems and chaos scattering and spectral theory nonlinear wave equations optimal control optical waveguide design and numerical simulation The book is suitable for a diverse audience of mathematical specialists interested in fiber optic communications and other nonlinear phenomena It is also suitable for engineers and other scientists interested in the mathematics of nonlinear wave propagation Spectral Theory of Schrodinger Operators Rafael del Río, Carlos Villegas-Blas, 2004 This volume gathers the articles based on a series of lectures from a workshop held at the Institute of Applied Mathematics of the National University of Mexico The aim of the book is to present to a non specialized audience the basic tools needed to understand and appreciate new trends of research on Schrodinger operator theory Topics discussed include various aspects of the spectral theory of differential operators the theory of self adjoint operators finite rank perturbations spectral properties of random Schrodinger operators and scattering theory for Schrodinger operators The material is suitable for graduate students and research mathematicians interested in differential operators in particular spectral theory of Schrodinger operators **Geometric Methods in Group Theory** José Burillo, 2005 This volume presents

articles by speakers and participants in two AMS special sessions Geometric Group Theory and Geometric Methods in Group Theory held respectively at Northeastern University Boston MA and at Universidad de Sevilla Spain The expository and survey articles in the book cover a wide range of topics making it suitable for researchers and graduate students interested in group theory

**Applications of Affine and Weyl Geometry** Eduardo García-Río, Peter Gilkey, Stana Nikčević, Ramón Vázquez-Lorenzo, 2022-05-31 Pseudo Riemannian geometry is to a large extent the study of the Levi Civita connection which is the unique torsion free connection compatible with the metric structure There are however other affine connections which arise in different contexts such as conformal geometry contact structures Weyl structures and almost Hermitian geometry In this book we reverse this point of view and instead associate an auxiliary pseudo Riemannian structure of neutral signature to certain affine connections and use this correspondence to study both geometries We examine Walker structures Riemannian extensions and Kähler Weyl geometry from this viewpoint This book is intended to be accessible to mathematicians who are not expert in the subject and to students with a basic grounding in differential geometry Consequently the first chapter contains a comprehensive introduction to the basic results and definitions we shall need proofs are included of many of these results to make it as self contained as possible Para complex geometry plays an important role throughout the book and consequently is treated carefully in various chapters as is the representation theory underlying various results It is a feature of this book that rather than as regarding para complex geometry as an adjunct to complex geometry instead we shall often introduce the para complex concepts first and only later pass to the complex setting The second and third chapters are devoted to the study of various kinds of Riemannian extensions that associate to an affine structure on a manifold a corresponding metric of neutral signature on its cotangent bundle These play a role in various questions involving the spectral geometry of the curvature operator and homogeneous connections on surfaces The fourth chapter deals with Kähler Weyl geometry which lies in a certain sense midway between affine geometry and Kähler geometry Another feature of the book is that we have tried wherever possible to find the original references in the subject for possible historical interest Thus we have cited the seminal papers of Levi Civita Ricci Schouten and Weyl to name but a few exemplars We have also given different proofs of various results than those that are given in the literature to take advantage of the unified treatment of the area given herein

**Nonlinear Partial Differential Equations and Related Analysis** Gui-Qiang Chen, George Gasper, Joseph W. Jerome, 2005 The Emphasis Year on Nonlinear Partial Differential Equations and Related Analysis at Northwestern University produced this fine collection of original research and survey articles Many well known mathematicians attended the events and submitted their contributions for this volume Eighteen papers comprise this work representing the most significant advances and current trends in nonlinear PDEs and their applications Topics covered include elliptic and parabolic equations Navier-Stokes equations and hyperbolic conservation laws Important applications are presented from incompressible and compressible fluid mechanics combustion and electromagnetism Also included are

articles on recent advances in statistical reliability in modeling simulation level set methods for image processing shock waves free boundaries boundary layers errors in numerical solutions stability instability and singular limits The volume is suitable for researchers and graduate students interested in partial differential equations     Nonstandard Models of Arithmetic and Set Theory Ali Enayat, Roman Kossak, 2004 This is the proceedings of the AMS special session on nonstandard models of arithmetic and set theory held at the Joint Mathematics Meetings in Baltimore MD The volume opens with an essay from Haim Gaifman that probes the concept of non standardness in mathematics and provides a fascinating mix of historical and philosophical insights into the nature of nonstandard mathematical structures In particular Gaifman compares and contrasts the discovery of nonstandard models with other key mathematical innovations such as the introduction of various number systems the modern concept of function and non Euclidean geometries Other articles in the book present results related to nonstandard models in arithmetic and set theory including a survey of known results on the Turing upper bounds of arithmetic sets and functions The volume is suitable for graduate students and research mathematicians interested in logic especially model theory     **Complex Analysis and Dynamical Systems** Mark L'vovich Agranovskiĭ, 2004 This book contains contributions from the participants of an International Conference on Complex Analysis and Dynamical Systems The papers collected here are devoted to various topics in complex analysis and dynamical systems ranging from properties of holomorphic mappings to attractors in hyperbolic spaces Overall these selections provide an overview of activity in analysis at the outset of the twenty first century The book is suitable for graduate students and researchers in complex analysis and related problems of dynamics With this volume the Israel Mathematical Conference Proceedings are now published as a subseries of the AMS Contemporary Mathematics series     **Ultrametric Functional Analysis** Bertin Diarra, 2005 With contributions by leading mathematicians this proceedings volume reflects the program of the Eighth International Conference on  $p$  adic Functional Analysis held at Blaise Pascal University Clermont Ferrand France Articles in the book offer a comprehensive overview of research in the area A wide range of topics are covered including basic ultrametric functional analysis topological vector spaces measure and integration Choquet theory Banach and topological algebras analytic functions in particular in connection with algebraic geometry roots of rational functions and Frobenius structure in  $p$  adic differential equations and  $q$  ultrametric calculus The material is suitable for graduate students and researchers interested in number theory functional analysis and algebra

## **Recent Advances In Riemannian And Lorentzian Geometries** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Recent Advances In Riemannian And Lorentzian Geometries**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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