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Homogeneous Structures on Riemannian Manifolds

F. Tricerri and L. Vanhecke



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Homogeneous Structure On Riemannian Manifolds

**Jesus A Alvarez Lopez, Eduardo Garcia-
rio**



Homogeneous Structure On Riemannian Manifolds:

Homogeneous Structures on Riemannian Manifolds F. Tricerri, L. Vanhecke, 1983-06-23 The central theme of this book is the theorem of Ambrose and Singer which gives for a connected complete and simply connected Riemannian manifold a necessary and sufficient condition for it to be homogeneous This is a local condition which has to be satisfied at all points and in this way it is a generalization of E Cartan's method for symmetric spaces The main aim of the authors is to use this theorem and representation theory to give a classification of homogeneous Riemannian structures on a manifold There are eight classes and some of these are discussed in detail Using the constructive proof of Ambrose and Singer many examples are discussed with special attention to the natural correspondence between the homogeneous structure and the groups acting transitively and effectively as isometries on the manifold

Homogeneous Structures on Riemannian Manifolds Franco Tricerri, G Tricerri, L. Vanhecke, 2014-05-14 The central theme of this book is the theorem of Ambrose and Singer which gives for a connected complete and simply connected Riemannian manifold a necessary and sufficient condition for it to be homogeneous This is a local condition which has to be satisfied at all points and in this way it is a generalization of E Cartan's method for symmetric spaces The main aim of the authors is to use this theorem and representation theory to give a classification of homogeneous Riemannian structures on a manifold There are eight classes and some of these are discussed in detail Using the constructive proof of Ambrose and Singer many examples are discussed with special attention to the natural correspondence between the homogeneous structure and the groups acting transitively and effectively as isometries on the manifold

Pseudo-Riemannian Homogeneous Structures Giovanni Calvaruso, Marco Castrillón López, 2019-08-14 This book provides an up to date presentation of homogeneous pseudo Riemannian structures an essential tool in the study of pseudo Riemannian homogeneous spaces Benefiting from large symmetry groups these spaces are of high interest in Geometry and Theoretical Physics Since the seminal book by Tricerri and Vanhecke the theory of homogeneous structures has been considerably developed and many applications have been found The present work covers a gap in the literature of more than 35 years presenting the latest contributions to the field in a modern geometric approach with special focus on manifolds equipped with pseudo Riemannian metrics This unique reference on the topic will be of interest to researchers working in areas of mathematics where homogeneous spaces play an important role such as Differential Geometry Global Analysis General Relativity and Particle Physics

The Geometry of Walker Manifolds Peter Gilkey, Miguel Brozos-Vázquez, Eduardo García-Río, Stana Nikčević, Ramón Vázquez-Lorenzo, 2022-05-31 This book which focuses on the study of curvature is an introduction to various aspects of pseudo Riemannian geometry We shall use Walker manifolds pseudo Riemannian manifolds which admit a non trivial parallel null plane field to exemplify some of the main differences between the geometry of Riemannian manifolds and the geometry of pseudo Riemannian manifolds and thereby illustrate phenomena in pseudo Riemannian geometry that are quite different from those which occur in Riemannian

geometry i.e. for indefinite as opposed to positive definite metrics Indefinite metrics are important in many diverse physical contexts classical cosmological models general relativity and string theory to name but two Walker manifolds appear naturally in numerous physical settings and provide examples of extremal mathematical situations as will be discussed presently To describe the geometry of a pseudo Riemannian manifold one must first understand the curvature of the manifold We shall analyze a wide variety of curvature properties and we shall derive both geometrical and topological results Special attention will be paid to manifolds of dimension 3 as these are quite tractable We then pass to the 4 dimensional setting as a gateway to higher dimensions Since the book is aimed at a very general audience and in particular to an advanced undergraduate or to a beginning graduate student no more than a basic course in differential geometry is required in the way of background To keep our treatment as self contained as possible we shall begin with two elementary chapters that provide an introduction to basic aspects of pseudo Riemannian geometry before beginning on our study of Walker geometry An extensive bibliography is provided for further reading Math subject classifications Primary 53B20 PACS 02 40 Hw Secondary 32Q15 51F25 51P05 53B30 53C50 53C80 58A30 83F05 85A04 Table of Contents Basic Algebraic Notions Basic Geometrical Notions Walker Structures Three Dimensional Lorentzian Walker Manifolds Four Dimensional Walker Manifolds The Spectral Geometry of the Curvature Tensor Hermitian Geometry Special Walker Manifolds The Volume of Vector Fields on Riemannian Manifolds Olga Gil-Medrano, 2023-07-31 This book focuses on the study of the volume of vector fields on Riemannian manifolds Providing a thorough overview of research on vector fields defining minimal submanifolds and on the existence and characterization of volume minimizers it includes proofs of the most significant results obtained since the subject's introduction in 1986 Aiming to inspire further research it also highlights a selection of intriguing open problems and exhibits some previously unpublished results The presentation is direct and deviates substantially from the usual approaches found in the literature requiring a significant revision of definitions statements and proofs A wide range of topics is covered including a discussion on the conditions for a vector field on a Riemannian manifold to determine a minimal submanifold within its tangent bundle with the Sasaki metric numerous examples of minimal vector fields including those of constant length on punctured spheres a thorough analysis of Hopf vector fields on odd dimensional spheres and their quotients and a description of volume minimizing vector fields of constant length on spherical space forms of dimension three Each chapter concludes with an up to date survey which offers supplementary information and provides valuable insights into the material enhancing the reader's understanding of the subject Requiring a solid understanding of the fundamental concepts of Riemannian geometry the book will be useful for researchers and PhD students with an interest in geometric analysis *Homogeneous Structures on Riemannian Manifolds* F. Tricerri, L. Vanhecke, 1983-06-23 The central theme of this book is the theorem of Ambrose and Singer which gives for a connected complete and simply connected Riemannian manifold a necessary and sufficient condition for it to be homogeneous This is a local condition which has to be satisfied at all points

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Geometry And Topology Of Submanifolds X: Differential Geometry In Honor Of Professor S S Chern Weihuan Chen, An-min Li, Udo Simon, Leopold Verstraeten, Changping

Wang, Martin Wiehe, 2000-11-07 Contents Progress in Affine Differential Geometry Problem List and Continued Bibliography T Binder Proceedings Berlin Germany Beijing China Geometry Topology Submanifolds X Differential Geometry Dedication

Crystallographic Groups and Their Generalizations Paul Igodt, 2000 This volume contains articles written by the invited speakers and workshop participants from the conference on Crystallographic Groups and Their Generalizations held at Katholieke Universiteit Leuven Kortrijk Belgium Presented are recent developments and open problems Topics include the theory of affine structures and polynomial structures affine Schottky groups and crooked tilings theory and problems on the geometry of finitely generated solvable groups flat Lorentz 3 manifolds and Fuchsian groups filiform Lie algebras hyperbolic automorphisms and Anosov diffeomorphisms on infra nilmanifolds localization theory of virtually nilpotent groups and aspherical spaces projective varieties and results on affine apartment systems Participants delivered high level research mathematics and a discussion was held forum for new researchers The survey results and original papers contained in this volume offer a comprehensive view of current developments in the field

Geometry, Algebra and Applications: From Mechanics to Cryptography Marco Castrillón López, Luis Hernández Encinas, Pedro Martínez Gadea, Ma Eugenia Rosado María, 2016-06-30 This volume collects contributions written by different experts in honor of Prof Jaime Muñoz Masqu It covers a wide variety of research topics from differential geometry to algebra but particularly focuses on the geometric formulation of variational calculus geometric mechanics and field theories symmetries and conservation laws of differential equations and pseudo Riemannian geometry of homogeneous spaces It also discusses algebraic applications to cryptography and number theory It offers state of the art contributions in the context of current research trends The final result is a challenging panoramic view of connecting problems that initially appear distant

Geometry and Topology of Submanifolds, X Weihuan Chen, 2000 <http://www.worldscientific.com/worldscibooks/10.1142/4569>

New Developments in Differential Geometry, Budapest 1996 J. Szenthe, 2012-12-06 Proceedings of the Conference on Differential Geometry Budapest Hungary July 27-30 1996

Differential Geometry and Analysis on CR Manifolds Sorin Dragomir, Giuseppe Tomassini, 2007-06-10 Presents many major differential geometric achievements in the theory of CR manifolds for the first time in book form Explains how certain results from analysis are employed in CR geometry Many examples and explicitly worked out proofs of main geometric results in the first section of the book making it suitable as a graduate main course or

seminar textbook Provides unproved statements and comments inspiring further study *Differential Geometry - Proceedings Of The Viii International Colloquium* Jesus A Alvarez Lopez, Eduardo Garcia-rio, 2009-04-27 This volume contains research and expository papers on recent advances in foliations and Riemannian geometry Some of the topics covered in this volume include topology geometry dynamics and analysis of foliations curvature submanifold theory Lie groups and harmonic maps Among the contributions readers may find an extensive survey on characteristic classes of Riemannian foliations offering also new results an article showing the uniform simplicity of certain diffeomorphism groups an exposition of convergences of contact structures to foliations from the point of view of Thurston s and Thurston Bennequin s inequalities a discussion about Fatou Julia decompositions for foliations and a description of singular Riemannian foliations on spaces without conjugate points Papers on submanifold theory focus on the existence of graphs with prescribed mean curvature and mean curvature flow for spacelike graphs isometric and conformal deformations and detailed surveys on totally geodesic submanifolds in symmetric spaces cohomogeneity one actions on hyperbolic spaces and rigidity of geodesic spheres in space forms Geometric realizability of curvature tensors and curvature operators are also treated in this volume with special attention to the affine and the pseudo Riemannian settings Also some contributions on biharmonic maps and submanifolds enrich the scope of this volume in providing an overview of different topics of current interest in differential geometry

Riemannian Geometry During the Second Half of the Twentieth Century Marcel Berger, 2000 During its first hundred years Riemannian geometry enjoyed steady but undistinguished growth as a field of mathematics In the last fifty years of the twentieth century however it has exploded with activity Berger marks the start of this period with Rauch s pioneering paper of 1951 which contains the first real pinching theorem and an amazing leap in the depth of the connection between geometry and topology Since then the field has become so rich that it is almost impossible for the uninitiated to find their way through it Textbooks on the subject invariably must choose a particular approach thus narrowing the path In this book Berger provides a remarkable survey of the main developments in Riemannian geometry in the second half of the last fifty years One of the most powerful features of Riemannian manifolds is that they have invariants of at least three different kinds There are the geometric invariants topology the metric various notions of curvature and relationships among these There are analytic invariants eigenvalues of the Laplacian wave equations Schrödinger equations There are the invariants that come from Hamiltonian mechanics geodesic flow ergodic properties periodic geodesics Finally there are important results relating different types of invariants To keep the size of this survey manageable Berger focuses on five areas of Riemannian geometry Curvature and topology the construction of and the classification of space forms distinguished metrics especially Einstein metrics eigenvalues and eigenfunctions of the Laplacian the study of periodic geodesics and the geodesic flow Other topics are treated in less detail in a separate section While Berger s survey is not intended for the complete beginner one should already be familiar with notions of curvature and geodesics he provides a detailed map to the major

developments of Riemannian geometry from 1950 to 1999 Important threads are highlighted with brief descriptions of the results that make up that thread This supremely scholarly account is remarkable for its careful citations and voluminous bibliography If you wish to learn about the results that have defined Riemannian geometry in the last half century start with this book *The Mathematical Heritage Of C F Gauss* George M Rassias,1991-09-30 This volume is a collection of original and expository papers in the fields of Mathematics in which Gauss had made many fundamental discoveries The contributors are all outstanding in their fields and the volume will be of great interest to all research mathematicians research workers in the history of science and graduate students in Mathematics and Mathematical Physics Advances In Differential Geometry And Topology Franco Tricerri,1990-11-20 The aim of this volume is to offer a set of high quality contributions on recent advances in Differential Geometry and Topology with some emphasis on their application in physics A broad range of themes is covered including convex sets Kaehler manifolds and moment map combinatorial Morse theory and 3 manifolds knot theory and statistical mechanics **Harmonic Vector Fields** Sorin Dragomir,Domenico Perrone,2012 An excellent reference for anyone needing to examine properties of harmonic vector fields to help them solve research problems The book provides the main results of harmonic vector elds with an emphasis on Riemannian manifolds using past and existing problems to assist you in analyzing and furnishing your own conclusion for further research It emphasizes a combination of theoretical development with practical applications for a solid treatment of the subject useful to those new to research using differential geometric methods in extensive detail A useful tool for any scientist conducting research in the field of harmonic analysis Provides applications and modern techniques to problem solving A clear and concise exposition of differential geometry of harmonic vector fields on Reimannian manifolds Physical Applications of Geometric Methods The Geometry of Dynamical Triangulations Jan Ambjorn,Mauro Carfora,Annalisa Marzuoli,2009-02-17 The express purpose of these lecture notes is to go through some aspects of the simplicial quantum gravity model known as the dynamical triangulations approach Emphasis has been on laying the foundations of the theory and on illustrating its subtle and often unexplored connections with many distinct mathematical fields ranging from global Riemannian geometry to moduli theory number theory and topology Our exposition will concentrate on these points so that graduate students may find in these notes a useful exposition of some of the rigorous results one can establish in this field and hopefully a source of inspiration for new exciting problems We try as far as currently possible to expose the interplay between the analytical aspects of dynamical triangulations and the results of Monte Carlo simulations The techniques described here are rather novel and allow us to address points of current interest in the subject of simplicial quantum gravity while requiring very little in the way of fancy field theoretical arguments As a consequence these notes contain mostly original and until now unpublished material which will hopefully be of interest both to the expert practitioner and to graduate students entering the field Among the topics addressed here in considerable detail are the following i An analytical discussion of the geometry of dynamical triangulations

in dimensions $n \geq 3$ and $n \geq 4$ *Generalized Heisenberg Groups and Damek-Ricci Harmonic Spaces* Jürgen Berndt, Franco Tricerri, Lieven Vanhecke, 2006-11-14 Generalized Heisenberg groups or H type groups introduced by A Kaplan and Damek Ricci harmonic spaces are particularly nice Lie groups with a vast spectrum of properties and applications These harmonic spaces are homogeneous Hadamard manifolds containing the H type groups as horospheres These notes contain a thorough study of their Riemannian geometry by means of a detailed treatment of their Jacobi vector fields and Jacobi operators Some problems are included and will hopefully stimulate further research on these spaces The book is written for students and researchers assuming only basic knowledge of Riemannian geometry and it contains a brief survey of the background material needed to follow the entire treatment **Global Differential Geometry** Alfred Gray, Marisa Fernández, Joseph Albert Wolf, 2001 Alfred Gray's work covered a great part of differential geometry In September 2000 a remarkable International Congress on Differential Geometry was held in his memory in Bilbao Spain Mathematicians from all over the world representing 24 countries attended the event This volume includes major contributions by well known mathematicians T Banchoff S Donaldson H Ferguson M Gromov N Hitchin A Huckleberry O Kowalski V Miquel E Musso A Ros S Salamon L Vanhecke P Wellin and J A Wolf the interesting discussion from the round table moderated by J P Bourguignon and a carefully selected and refereed selection of the Short Communications presented at the Congress This book represents the state of the art in modern differential geometry with some general expositions of some of the more active areas special Riemannian manifolds Lie groups and homogeneous spaces complex structures symplectic manifolds geometry of geodesic spheres and tubes and related problems geometry of surfaces and computer graphics in differential geometry

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