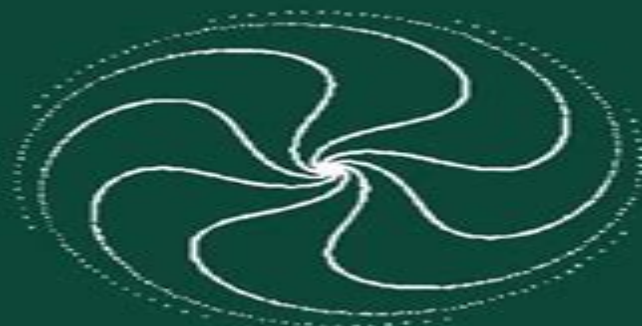


Progress in Mathematics

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# **Riemannian Geometry of Contact and Symplectic Manifolds**



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# Riemannian Geometry Of Contact And Symplectic Manifolds

**Patrick Vollmar**



## **Riemannian Geometry Of Contact And Symplectic Manifolds:**

*Riemannian Geometry of Contact and Symplectic Manifolds* David E. Blair, 2010-08-14 This second edition divided into fourteen chapters presents a comprehensive treatment of contact and symplectic manifolds from the Riemannian point of view The monograph examines the basic ideas in detail and provides many illustrative examples for the reader Riemannian Geometry of Contact and Symplectic Manifolds Second Edition provides new material in most chapters but a particular emphasis remains on contact manifolds Researchers mathematicians and graduate students in contact and symplectic manifold theory and in Riemannian geometry will benefit from this work A basic course in Riemannian geometry is a prerequisite *Geometry of Cauchy-Riemann Submanifolds* Sorin Dragomir, Mohammad Hasan Shahid, Falleh R.

Al-Solamy, 2016-05-31 This book gathers contributions by respected experts on the theory of isometric immersions between Riemannian manifolds and focuses on the geometry of CR structures on submanifolds in Hermitian manifolds CR structures are a bundle theoretic recast of the tangential Cauchy Riemann equations in complex analysis involving several complex variables The book covers a wide range of topics such as Sasakian geometry Kaehler and locally conformal Kaehler geometry the tangential CR equations Lorentzian geometry holomorphic statistical manifolds and paraquaternionic CR submanifolds Intended as a tribute to Professor Aurel Bejancu who discovered the notion of a CR submanifold of a Hermitian manifold in 1978 the book provides an up to date overview of several topics in the geometry of CR submanifolds Presenting detailed information on the most recent advances in the area it represents a useful resource for mathematicians and physicists alike

**Harmonic Maps and Differential Geometry** Eric Loubeau, Stefano Montaldo, 2011 This volume contains the proceedings of a conference held in Cagliari Italy from September 7 10 2009 to celebrate John C Wood's 60th birthday These papers reflect the many facets of the theory of harmonic maps and its links and connections with other topics in Differential and Riemannian Geometry Two long reports one on constant mean curvature surfaces by F Pedit and the other on the construction of harmonic maps by J C Wood open the proceedings These are followed by a mix of surveys on Prof Wood's area of expertise Lagrangian surfaces biharmonic maps locally conformally Kahler manifolds and the DDVV conjecture as well as several research papers on harmonic maps Other research papers in the volume are devoted to Willmore surfaces Goldstein Pedrich flows contact pairs prescribed Ricci curvature conformal fibrations the Fadeev Hopf model the Compact Support Principle and the curvature of surfaces

**Geometry of Submanifolds and Applications** Bang-Yen Chen, Majid Ali Choudhary, Mohammad Nazrul Islam Khan, 2024-03-26 This book features chapters written by renowned scientists from various parts of the world providing an up to date survey of submanifold theory spanning diverse topics and applications The book covers a wide range of topics such as Chen Ricci inequalities in differential geometry optimal inequalities for Casorati curvatures in quaternion geometry conformal Ricci Yamabe solitons submersion on statistical metallic structure solitons in f R T gravity metric affine geometry generalized Wintgen inequalities tangent bundles and Lagrangian submanifolds Moreover

the book showcases the latest findings on Pythagorean submanifolds and submanifolds of four dimensional f manifolds The chapters in this book delve into numerous problems and conjectures on submanifolds providing valuable insights for scientists educators and graduate students looking to stay updated with the latest developments in the field With its comprehensive coverage and detailed explanations this book is an essential resource for anyone interested in submanifold theory

**The Geometry of Heisenberg Groups** Ernst Binz, Sonja Pods, 2008 The three dimensional Heisenberg group being a quite simple non commutative Lie group appears prominently in various applications of mathematics The goal of this book is to present basic geometric and algebraic properties of the Heisenberg group and its relation to other important mathematical structures the skew field of quaternions symplectic structures and representations and to describe some of its applications In particular the authors address such subjects as signal analysis and processing geometric optics and quantization In each case the authors present necessary details of the applied topic being considered This book manages to encompass a large variety of topics being easily accessible in its fundamentals It can be useful to students and researchers working in mathematics and in applied mathematics

**BOOK JACKET Differential Geometry And Its Applications - Proceedings Of The 10th International Conference On Dga2007** Demeter Krupka, Oldrich Kowalski, Olga Krupkova, Jan Slovak, 2008-07-14 This volume contains invited lectures and selected research papers in the fields of classical and modern differential geometry global analysis and geometric methods in physics presented at the 10th International Conference on Differential Geometry and its Applications DGA2007 held in Olomouc Czech Republic The book covers recent developments and the latest results in the following fields Riemannian geometry connections jets differential invariants the calculus of variations on manifolds differential equations Finsler structures and geometric methods in physics It is also a celebration of the 300th anniversary of the birth of one of the greatest mathematicians Leonhard Euler and includes the Euler lecture Leonhard Euler 300 years on by R Wilson Notable contributors include J F Cari ena M Castrill n L pez J Erichhorn J H Eschenburg I Kol A P Kopylov J Korba O Kowalski B Kruglikov D Krupka O Krupkov R L andre Haizhong Li S Maeda M A Malakhaltsev O I Mokhov J Mu oz Masqu S Preston V Rovenski D J Saunders M Sekizawa J Slov k J Szilasi L Tam ssy P Walczak and others

*Foliations and Geometric Structures* Aurel Bejancu, Hani Reda Farran, 2006-01-17 Offers basic material on distributions and foliations This book introduces and builds the tools needed for studying the geometry of foliated manifolds Its main theme is to investigate the interrelations between foliations of a manifold on the one hand and the many geometric structures that the manifold may admit on the other hand

Hermitian-Grassmannian Submanifolds Young Jin Suh, Yoshihiro Ohnita, Jiazou Zhou, Byung Hak Kim, Hyunjin Lee, 2017-09-14 This book presents the proceedings of the 20th International Workshop on Hermitian Symmetric Spaces and Submanifolds which was held at the Kyungpook National University from June 21 to 25 2016 The Workshop was supported by the Research Institute of Real and Complex Manifolds RIRCM and the National Research Foundation of Korea NRF The Organizing Committee invited 30 active geometers of

differential geometry and related fields from all around the globe to discuss new developments for research in the area These proceedings provide a detailed overview of recent topics in the field of real and complex submanifolds **Differential Geometry Of Submanifolds And Its Related Topics - Proceedings Of The International Workshop In Honor Of S Maeda's 60th Birthday** Sadahiro Maeda,Yoshihiro Ohnita,Qing-ming Cheng,2013-10-23 This volume is a compilation of papers presented at the conference on differential geometry in particular minimal surfaces real hypersurfaces of a non flat complex space form submanifolds of symmetric spaces and curve theory It also contains new results or brief surveys in these areas This volume provides fundamental knowledge to readers such as differential geometers who are interested in the theory of real hypersurfaces in a non flat complex space form **Differential Geometric Structures and Applications** Vladimir Rovenski,Paweł Walczak,Robert Wolak,2024-03-15 This proceedings contains a collection of selected peer reviewed contributions from the 4th International Workshop Differential Geometric Structures and Applications held in Haifa Israel from May 10 13 2023 The papers included in this volume showcase the latest advancements in modern geometry and interdisciplinary applications in fields ranging from mathematical physics to biology Since 2008 this workshop series has provided a platform for researchers in pure and applied mathematics including students to engage in discussions and explore the frontiers of modern geometry Previous workshops in the series have focused on topics such as Reconstruction of Geometrical Objects Using Symbolic Computations 2008 Geometry and Symbolic Computations 2013 and Geometric Structures and Interdisciplinary Applications 2018 *Differential Geometry and Its Applications* Oldřich Kowalski,Olga Krupkova,2008 This volume contains invited lectures and selected research papers in the fields of classical and modern differential geometry global analysis and geometric methods in physics presented at the 10th International Conference on Differential Geometry and its Applications DGA2007 held in Olomouc Czech Republic The book covers recent developments and the latest results in the following fields Riemannian geometry connections jets differential invariants the calculus of variations on manifolds differential equations Finsler structures and geometric methods in physics It is also a celebration of the 300th anniversary of the birth of one of the greatest mathematicians Leonhard Euler and includes the Euler lecture Leonhard Euler 300 years on by R Wilson Notable contributors include J F Cariena M Castrillon Lpez J Erichhorn J H Eschenburg I Kol A P Kopylov J Korba O Kowalski B Kruglikov D Krupka O Krupkov R L andre Haizhong Li S Maeda M A Malakhaltsev O I Mokhov J Mu oz Masqu S Preston V Rovenski D J Saunders M Sekizawa J Slov k J Szilasi L Tam ssy P Walczak and others **Differential Geometry** Jesús A. Alvarez López,Eduardo García-Río,2009 A brief portrait of the life and work of Professor Enrique Vidal Abascal L A Cordero pt A Foliation theory Characteristic classes for Riemannian foliations S Hurder Non unique ergodicity of harmonic measures Smoothing Samuel Petite s examples B Deroin On the uniform simplicity of diffeomorphism groups T Tsuboi On Bennequin s isotopy lemma and Thurston s inequality Y Mitsumatsu On the Julia sets of complex codimension one transversally holomorphic foliations T Asuke Singular Riemannian foliations on

spaces without conjugate points A Lytchak Variational formulae for the total mean curvatures of a codimension one distribution V Rovenski and P Walczak On a Weitzenböck like formula for Riemannian foliations V Slesar Duality and minimality for Riemannian foliations on open manifolds X M Masa Open problems on foliations pt B Riemannian geometry Graphs with prescribed mean curvature M Dajczer Genuine isometric and conformal deformations of submanifolds R Tojeiro Totally geodesic submanifolds in Riemannian symmetric spaces S Klein The orbits of cohomogeneity one actions on complex hyperbolic spaces J C D az Ramos Rigidity results for geodesic spheres in space forms J Roth Mean curvature flow and Bernstein Calabi results for spacelike graphs G Li and I M C Salavessa Riemannian geometric realizations for Ricci tensors of generalized algebraic curvature operators P Gilkey S Nikčević and D Westerman Conformally Osserman multiply warped product structures in the Riemannian setting M Brozos Vázquez M E Vázquez Abal and R Vázquez Lorenzo Riemannian symmetric spaces M Goze and E Remm Methods for solving the Jacobi equation Constant osculating rank vs constant Jacobi osculating rank T Arias Marco On the reparametrization of affine homogeneous geodesics Z Dušek Conjugate connections and differential equations on infinite dimensional manifolds M Aghasi und weitere Totally biharmonic submanifolds D Impera and S Montaldo The biharmonicity of unit vector fields on the Poincaré half space H symbol M K Markellos Perspectives on biharmonic maps and submanifolds A Balmus Contact pair structures and associated metrics G Bande and A Hadjar Paraquaternionic manifolds and mixed 3 structures S Ianus and G E Viicu On topological obstruction of compact positively Ricci curved manifolds W H Chen Gray curvature conditions and the Tanaka Webster connection R Mocanu Riemannian structures on higher order frame bundles from classical linear connections J Kurek and W M Mikulski Distributions on the cotangent bundle from torsion free connections J Kurek and W M Mikulski On the geodesics of the rotational surfaces in the Bianchi Cartan Vranceanu spaces P Piu and M M Profir Cotangent bundles with general natural Kähler structures of quasi constant holomorphic sectional curvatures S L Druta Polynomial translation Weingarten surfaces in 3 dimensional Euclidean space M I Munteanu and A I Nistor G structures defined on pseudo Riemannian manifolds I Sánchez Rodríguez List of participants

**Recent Advances in the Geometry of Submanifolds** Bogdan D. Suceavă, Alfonso Carriazo, Yun Myung Oh, Joeri Van der Veken, 2016-09-14 This volume contains the proceedings of the AMS Special Session on Geometry of Submanifolds held from October 25-26 2014 at San Francisco State University San Francisco CA and the AMS Special Session on Recent Advances in the Geometry of Submanifolds Dedicated to the Memory of Franki Dillen 1963-2013 held from March 14-15 2015 at Michigan State University East Lansing MI The focus of the volume is on recent studies of submanifolds of Riemannian semi Riemannian Kaehlerian and contact manifolds Some of these use techniques in classical differential geometry while others use methods from ordinary differential equations geometric analysis or geometric PDEs By brainstorming on the fundamental problems and exploring a large variety of questions studied in submanifold geometry the editors hope to provide mathematicians with a working tool not just a collection of individual contributions This volume is

dedicated to the memory of Franki Dillen whose work in submanifold theory attracted the attention of and inspired many geometers

*Differential Geometry* Ion Mihai, 2019-11-21 The present book contains 14 papers published in the Special Issue Differential Geometry of the journal Mathematics They represent a selection of the 30 submissions This book covers a variety of both classical and modern topics in differential geometry We mention properties of both rectifying and affine curves the geometry of hypersurfaces angles in Minkowski planes Euclidean submanifolds differential operators and harmonic forms on Riemannian manifolds complex manifolds contact manifolds in particular Sasakian and trans Sasakian manifolds curvature invariants and statistical manifolds and their submanifolds in particular Hessian manifolds We wish to mention that among the authors there are both well known geometers and young researchers The authors are from countries with a tradition in differential geometry Belgium China Greece Japan Korea Poland Romania Spain Turkey and United States of America Many of these papers were already cited by other researchers in their articles This book is useful for specialists in differential geometry operator theory physics and information geometry as well as graduate students in mathematics

**D-Modules, Perverse Sheaves, and Representation Theory** Ryoshi Hotta, Toshiyuki Tanisaki, 2007-11-07 D modules continues to be an active area of stimulating research in such mathematical areas as algebraic analysis differential equations and representation theory Key to D modules Perverse Sheaves and Representation Theory is the authors essential algebraic analytic approach to the theory which connects D modules to representation theory and other areas of mathematics To further aid the reader and to make the work as self contained as possible appendices are provided as background for the theory of derived categories and algebraic varieties The book is intended to serve graduate students in a classroom setting and as self study for researchers in algebraic geometry representation theory

*Real and Complex Submanifolds* Young Jin Suh, Jürgen Berndt, Yoshihiro Ohnita, Byung Hak Kim, Hyunjin Lee, 2014-12-05 Edited in collaboration with the Grassmann Research Group this book contains many important articles delivered at the ICM 2014 Satellite Conference and the 18th International Workshop on Real and Complex Submanifolds which was held at the National Institute for Mathematical Sciences Daejeon Republic of Korea August 10 12 2014 The book covers various aspects of differential geometry focused on submanifolds symmetric spaces Riemannian and Lorentzian manifolds and Kähler and Grassmann manifolds

*Differential Geometry* Elisabetta Barletta, Sorin Dragomir, Mohammad Hasan Shahid, Falleh R. Al-Solamy, 2025-07-07 This book Differential Geometry Foundations of Cauchy Riemann and Pseudohermitian Geometry Book I C is the third in a series of four books presenting a choice of topics among fundamental and more advanced in Cauchy Riemann CR and pseudohermitian geometry such as Lewy operators CR structures and the tangential CR equations the Levi form Tanaka Webster connections sub Laplacians pseudohermitian sectional curvature and Kohn Rossi cohomology of the tangential CR complex Recent results on submanifolds of Hermitian and Sasakian manifolds are presented from the viewpoint of the geometry of the second fundamental form of an isometric immersion The book has two souls those of Complex Analysis versus Riemannian geometry

and attempts to fill in the gap among the two The other three books of the series are Differential Geometry Manifolds Bundles Characteristic Classes Book I A Differential Geometry Riemannian Geometry and Isometric Immersions Book I B Differential Geometry Advanced Topics in Cauchy Riemann and Pseudohermitian Geometry Book I D The four books belong to an ampler book project Differential Geometry Partial Differential Equations and Mathematical Physics by the same authors and aim to demonstrate how certain portions of differential geometry DG and the theory of partial differential equations PDEs apply to general relativity and quantum gravity theory These books supply some of the ad hoc DG and PDEs machinery yet do not constitute a comprehensive treatise on DG or PDEs but rather authors choice based on their scientific mathematical and physical interests These are centered around the theory of immersions isometric holomorphic and CR and pseudohermitian geometry as devised by Sidney Martin Webster for the study of nondegenerate CR structures themselves a DG manifestation of the tangential CR equations *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 fields 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 Riemannian manifolds Physical Applications of Geometric Methods

**Symplectic Manifolds with no Kaehler structure** Alesky Tralle, John Oprea, 2006-11-14 This is a research monograph covering the majority of known results on the problem of constructing compact symplectic manifolds with no Kaehler structure with an emphasis on the use of rational homotopy theory In recent years some new and stimulating conjectures and problems have been formulated due to an influx of homotopical ideas Examples include the Lupton Oprea conjecture the Benson Gordon conjecture both of which are in the spirit of some older and still unsolved problems e.g. Thurston's conjecture and Sullivan's problem Our explicit aim is to clarify the interrelations between certain aspects of symplectic geometry and homotopy theory in the framework of the problems mentioned above We expect that the reader is aware of the basics of differential geometry and algebraic topology at graduate level **Conformal Vector Fields, Ricci Solitons and Related**

**Topics** Ramesh Sharma, Sharief Deshmukh, 2024-01-19 This book provides an up to date introduction to the theory of manifolds submanifolds semi Riemannian geometry and warped product geometry and their applications in geometry and physics It then explores the properties of conformal vector fields and conformal transformations including their fixed points essentiality and the Lichnerowicz conjecture Later chapters focus on the study of conformal vector fields on special Riemannian and Lorentzian manifolds with a special emphasis on general relativistic spacetimes and the evolution of



conformal vector fields in terms of initial data The book also delves into the realm of Ricci flow and Ricci solitons starting with motivations and basic results and moving on to more advanced topics within the framework of Riemannian geometry The main emphasis of the book is on the interplay between conformal vector fields and Ricci solitons and their applications in contact geometry The book highlights the fact that Nil solitons and Sol solitons naturally arise in the study of Ricci solitons in contact geometry Finally the book gives a comprehensive overview of generalized quasi Einstein structures and Yamabe solitons and their roles in contact geometry It would serve as a valuable resource for graduate students and researchers in mathematics and physics as well as those interested in the intersection of geometry and physics

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