New Developments in Differential Geometry, Budapest 1996

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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 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 *Proceedings of the Estonian Academy of Sciences, Physics and Mathematics* ,2004-12 *Differential Geometry and Its Applications* Old?ich 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 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 **Proceedings of the Estonian Academy of Sciences, Physics and Mathematics** ,2002-06 **Quaternionic Structures In Mathematics And Physics - Proceedings Of The Second Meeting** Stefano Marchiafava,Paolo Piccinni,Massimiliano Pontecorvo,2001-07-11 During the last five years after the first meeting on Quaternionic Structures in Mathematics and Physics interest in quaternionic geometry and its applications has continued to increase Progress has been made in constructing new classes of manifolds with quaternionic structures quaternionic K hler hyper K hler hyper complex etc studying the differential geometry of special classes of such manifolds and their submanifolds understanding relations between the quaternionic structure and other

differential geometric structures and also in physical applications of quaternionic geometry Some generalizations of classical quaternion like structures like HKT structures and hyper K hler manifolds with singularities appeared naturally and were studied Some of those results are published in this book **Essays in Mathematics and its Applications** Themistocles M. Rassias,Panos M. Pardalos,2016-06-14 This volume dedicated to the eminent mathematician Vladimir Arnold presents a collection of research and survey papers written on a large spectrum of theories and problems that have been studied or introduced by Arnold himself Emphasis is given to topics relating to dynamical systems stability of integrable systems algebraic and differential topology global analysis singularity theory and classical mechanics A number of applications of Arnold s groundbreaking work are presented This publication will assist graduate students and research mathematicians in acquiring an in depth understanding and insight into a wide domain of research of an interdisciplinary nature **Balkan Journal of Geometry and Its Applications** ,2004 **Riemannian Submersions and Related Topics** Maria Falcitelli,Anna Maria Pastore,Stere Ianus?,2004 This book provides the first ever systematic introduction to thetheory of Riemannian submersions which was initiated by BarrettO Neill and Alfred Gray less than four decades ago The authorsfocus their attention on classification theorems when the total spaceand the fibres have nice geometric properties *Geometry of Principal Sheaves* Efstathios Vassiliou,2006-03-30 The book provides a detailed introduction to the theory of connections on principal sheaves in the framework of Abstract Differential Geometry ADG This is a new approach to differential geometry based on sheaf theoretic methods without use of ordinary calculus This point of view complies with the demand of contemporary physics to cope with non smooth models of physical phenomena and spaces with singularities Starting with a brief survey of the required sheaf theory and cohomology the exposition then moves on to differential triads the abstraction of smooth manifolds and Lie sheaves of groups the abstraction of Lie groups Having laid the groundwork the main part of the book is devoted to the theory of connections on principal sheaves incorporating connections on vector and associated sheaves Topics such as the moduli sheaf of connections classification of principal sheaves curvature flat connections and flat sheaves Chern Weil theory are also treated The study brings to light fundamental notions and tools of the standard differential geometry which are susceptible of the present abstraction and whose role remains unexploited in the classical context because of the abundance of means therein However most of the latter are nonsensical in ADG **Geometric Dynamics** C. Udriste,2012-12-06 Geometric dynamics is a tool for developing a mathematical representation of real world phenomena based on the notion of a field line described in two ways as the solution of any Cauchy problem associated to a first order autonomous differential system as the solution of a certain Cauchy problem associated to a second order conservative prolongation of the initial system The basic novelty of our book is the discovery that a field line is a geodesic of a suitable geometrical structure on a given space Lorentz Udri te world force law In other words we create a wider class of Riemann Jacobi Riemann Jacobi Lagrange or Finsler Jacobi manifolds ensuring that all trajectories of a given vector field are

geodesics This is our contribution to an old open problem studied by H Poincare S Sasaki and others From the kinematic viewpoint of corpuscular intuition a field line shows the trajectory followed by a particle at a point of the definition domain of a vector field if the particle is sensitive to the related type of field Therefore field lines appear in a natural way in problems of theoretical mechanics fluid mechanics physics thermodynamics biology chemistry etc **The British National Bibliography** Arthur James Wells,1999 **Harmonic Morphisms, Harmonic Maps and Related Topics** Christopher Kum Anand,Paul Baird,John Colin Wood,Eric Loubeau,1999-10-13 The subject of harmonic morphisms is relatively new but has attracted a huge worldwide following Mathematicians young researchers and distinguished experts came from all corners of the globe to the City of Brest site of the first international conference devoted to the fledgling but dynamic field of harmonic morphisms Harmonic Morphisms Harmonic Maps and Related Topics reports the proceedings of that conference forms the first work primarily devoted to harmonic morphisms bringing together contributions from the founders of the subject leading specialists and experts in other related fields Starting with The Beginnings of Harmonic Morphisms which provides the essential background the first section includes papers on the stability of harmonic morphisms global properties harmonic polynomial morphisms Bochner technique f structures symplectic harmonic morphisms and discrete harmonic morphisms The second section addresses the wider domain of harmonic maps and contains some of the most recent results on harmonic maps and surfaces The final section highlights the rapidly developing subject of constant mean curvature surfaces Harmonic Morphisms Harmonic Maps and Related Topics offers a coherent balanced account of this fast growing subject that furnishes a vital reference for anyone working in the field <u>Geometry And Topology Of Submanifolds Ix</u> Leopold Verstraelen,Jean-marie Morvan,Ignace Van De Woestyne,George Zafindratafa,F Defever,1999-07-22 Contents Affine Bibliography 1998 T Binder et al Contact Metric R Harmonic Manifolds K Arslan Geometry Topology Valenciennes France Lyon France Leuven Belgium Dedication *Mathematical Reviews* ,2002 **Webs and Quasigroups** ,2000 Vol for 1991 has papers presented at Non Linear Geometric Algebra 89 *Maks A. Akivis Selected Papers* Maks Aĭzikovich Akivis,2008 **Universitatis Iagellonicae acta mathematica** ,2004 **Recent Developments In Gravitation And Mathematical Physics - Proceedings Of The First Mexican School On Gravitation And Mathematical Physics** Alfredo Macias,T Matos,O Obregon,H Quevedo,1996-05-25 These proceedings contain lecture notes on computer algebra cosmological models quantum cosmology and black hole physics Several research articles which cover different aspects of classical cosmology exact solutions to Einstein s equations and quantum field theory are also included **Analele Universității București** ,2000

Enjoying the Song of Phrase: An Emotional Symphony within **New Developments In Differential Geometry Budapest 1996 Proceedings**

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