

NEW LAGRANGIAN AND HAMILTONIAN METHODS IN FIELD THEORY

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New Lagrangian And Hamiltonian Methods In Field Theory

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Advances in Control Theory and Applications Claudio Bonivento, Alberto Isidori, Lorenzo Marconi, Carlo Rossi, 2007-06-04 This volume is the outcome of the first CASY workshop on Advances in Control Theory and Applications which was held at University of Bologna on May 22-26 2006 It consists of selected contributions by some of the invited speakers and contains recent results in control The volume is intended for engineers researchers and students in control engineering *Lie Groups, Differential Equations, and Geometry* Giovanni Falcone, 2017-09-19 This book collects a series of contributions addressing the various contexts in which the theory of Lie groups is applied A preliminary chapter serves the reader both as a basic reference source and as an ongoing thread that runs through the subsequent chapters From representation theory and Gerstenhaber algebras to control theory from differential equations to Finsler geometry and Lepage manifolds the book introduces young researchers in Mathematics to a wealth of different topics encouraging a

multidisciplinary approach to research As such it is suitable for students in doctoral courses and will also benefit researchers who want to expand their field of interest

Introduction to Global Variational Geometry Demeter Krupka, 2015-01-13 The book is devoted to recent research in the global variational theory on smooth manifolds Its main objective is an extension of the classical variational calculus on Euclidean spaces to topologically nontrivial finite dimensional smooth manifolds to this purpose the methods of global analysis of differential forms are used Emphasis is placed on the foundations of the theory of variational functionals on fibered manifolds relevant geometric structures for variational principles in geometry physical field theory and higher order fibered mechanics The book chapters include foundations of jet bundles and analysis of differential forms and vector fields on jet bundles the theory of higher order integral variational functionals for sections of a fibred space the global first variational formula in infinitesimal and integral forms extremal conditions and the discussion of Noether symmetries and generalizations the inverse problems of the calculus of variations of Helmholtz type variational sequence theory and its consequences for the global inverse problem cohomology conditions examples of variational functionals of mathematical physics Complete formulations and proofs of all basic assertions are given based on theorems of global analysis explained in the Appendix

Differential Geometry And Its Applications - Proceedings Of The 10th International Conference On Dga2007 Demeter Krupka, Oldrich Kowalski, Olga Krupkova, Jan Slovák, 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 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 Slovák J Szilasi L Tamssy P Walczak and others

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