

NEW LAGRANGIAN AND HAMILTONIAN METHODS IN FIELD THEORY

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New Lagrangian And Hamiltonian Methods In Field Theory

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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

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

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**New Lagrangian And Hamiltonian Methods In Field Theory**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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