

Antonio Masiello

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# Variational methods in Lorentzian geometry



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# Variational Methods In Lorentzian Geometry

**Michele Matzeu, Alfonso Vignoli**



## **Variational Methods In Lorentzian Geometry:**

*Variational Methods in Lorentzian Geometry* Antonio Masiello, 2017-10-05 Applies variational methods and critical point theory on infinite dimensional manifolds to some problems in Lorentzian geometry which have a variational nature such as existence and multiplicity results on geodesics and relations between such geodesics and the topology of the manifold

Recent Developments in General Relativity B. Casciaro, D. Fortunato, M. Francaviglia, A. Masiello, 2011-06-28 The 13th Italian Conference on General Relativity and Gravitational Physics was held in Cala Corvino Monopoli Bari from September 21 to September 25 1998 The Conference which is held every other year in different Italian locations has brought together as in the earlier conferences in this series those scientists who are interested and actively work in all aspects of general relativity from both the mathematical and the physical points of view from classical theories of gravitation to quantum gravity from relativistic astrophysics and cosmology to experiments in gravitation About 70 participants came from Departments of Astronomy and Astrophysics Departments of Mathematics and Departments of Experimental and Theoretical Physics from all over the Country in addition a few Italian scientists working abroad kindly accepted invitations from the Scientific Committee The good wishes of the University and of the Politecnico di Bari were conveyed by the director of Dipartimento Interuniversitario di Matematica Prof Franco Altomare These proceedings contain the contributions of the two winners of the SIGRAV prizes the invited talks presented at the Conference and most of the contributed talks We thank all of our colleagues who did their best to prepare their manuscripts The pleasant atmosphere induced by the beauty of the place was greatly enhanced not only by the participation of so many colleagues who had lively discussions about science well beyond Conference hours but also by the feeling of hospitality extended to the participants by the staff of the Cala Corvino Hotel where the Conference was held

**Analytical and Numerical Approaches to Mathematical Relativity** Jörg Frauendiener, Domenico J. W. Giulini, Volker Perlick, 2006-03-28 General relativity ranks among the most accurately tested fundamental theories in all of physics Deficiencies in mathematical and conceptual understanding still exist hampering further progress This book collects surveys by experts in mathematical relativity writing about the current status of and problems in their fields There are four contributions for each of the following mathematical areas differential geometry and differential topology analytical methods and differential equations and numerical methods

**Recent Developments in General Relativity, Genoa 2000** R. Cianci, R. Collina, M. Francaviglia, P. Fre, 2013-04-17 A survey of the most recent developments in general relativity and in the theory of the unification of Fundamental Interactions is presented in this book The theoretical results the cosmological and astrophysical aspects the experimental and observational programs are shown in 26 general talks by renowned scientists active in this field

Dynamical Systems and Differential Equations Shouchuan Hu, Xin Lu, Weiqing Xie, 2005

**Nonlinear Partial Differential Equations and Their Applications**, 1981

**Recent Developments in Gravitational Physics** I. Ciufolini, 2006-02-21 This volume provides an overview of the progress in

gravitational physics reporting recent theoretical experimental and observational results The book is based on the plenary invited and contributed papers presented at the biennial conference of the Italian Society of General Relativity and Gravitation SIGRAV held in Rome September 2002 The contributors discuss topics such as general relativity quantum gravity relativistic astrophysics cosmology and experimental gravitation This book is ideal for researchers and postgraduate students in relativity gravitation cosmology astrophysics and high energy physics

**International Journal of Theoretical Physics, Group Theory, and Nonlinear Optics**, 2002

**Wind Finslerian Structures: From Zermelo's Navigation to the Causality of Spacetimes** Erasmo Caponio, Miguel Angel Javaloyes, Miguel Sanchez, 2024-09-09 View the abstract

*Ordinary and Partial Differential Equations*, 1996

**Differential and Integral Equations**, 1999

**Discrete and Continuous Dynamical Systems**, 1997

*Topological Nonlinear Analysis* Michele Matzeu, Alfonso Vignoli, 1994-12-22

Topological tools in Nonlinear Analysis had a tremendous development during the last few decades The three main streams of research in this field Topological Degree Singularity Theory and Variational Methods have lately become impetuous rivers of scientific investigation The process is still going on and the achievements in this area are spectacular A most promising and rapidly developing field of research is the study of the role that symmetries play in nonlinear problems Symmetries appear in a quite natural way in many problems in physics and in differential or symplectic geometry such as closed orbits for autonomous Hamiltonian systems configurations of symmetric elastic plates under pressure Hopf Bifurcation Taylor vortices convective motions of fluids oscillations of chemical reactions etc Some of these problems have been tackled recently by different techniques using equivariant versions of Degree Singularity and Variations The main purpose of the present volume is to give a survey of some of the most significant achievements obtained by topological methods in Nonlinear Analysis during the last two three decades The survey articles presented here reflect the personal taste and points of view of the authors all of them well known and distinguished specialists in their own fields on the subject matter A common feature of these papers is that of starting with an historical introductory background of the different disciplines under consideration and climbing up to the heights of the most recent results

**Further Advances in Twistor Theory** Lionel J. Mason, L. P. Hughston, 1990

Twistor theory is the remarkable mathematical framework that was discovered by Roger Penrose in the course of research into gravitation and quantum theory It has since developed into a broad many faceted programme that attempts to resolve basic problems in physics by encoding the structure of physical fields and indeed space time itself into the complex analytical geometry of twistor space

BOOK JACKET

**Physics and Mathematics of Gravitation** Kerstin E. Kunze, Marc Mars, Miguel Angel Vázquez-Mozo, 2009-05-29 The Spanish Relativity Meeting is an annual meeting providing a forum where all subjects in relativity and gravitation can be discussed During the Spanish Relativity Meeting 2008 topics in general relativity mathematical relativity cosmology astrophysics numerical relativity black holes theories of gravity and string theory were treated

**Communications in Applied Analysis**, 2005

Mathematical Reviews, 2006

*Pacific Journal of*

*Mathematics* ,1997

**The Bulletin of Mathematics Books** ,1992

Advances in Differential Equations ,1997

## The Enigmatic Realm of **Variational Methods In Lorentzian Geometry**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Variational Methods In Lorentzian Geometry** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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