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# Cartesian Currents in the Calculus of Variations I

Cartesian Currents



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# Cartesian Currents In The Calculus Of Variations I

## Cartesian Currents

**Giuseppe Buttazzo, Mariano  
Giaquinta, Stefan Hildebrandt**



## **Cartesian Currents In The Calculus Of Variations I Cartesian Currents:**

**Cartesian Currents in the Calculus of Variations I** Mariano Giaquinta, Giuseppe Modica, Jiri Soucek, 1998-08-19 This monograph in two volumes deals with non scalar variational problems arising in geometry as harmonic mappings between Riemannian manifolds and minimal graphs and in physics as stable equilibrium configurations in nonlinear elasticity or for liquid crystals The presentation is selfcontained and accessible to non specialists Topics are treated as far as possible in an elementary way illustrating results with simple examples in principle chapters and even sections are readable independently of the general context so that parts can be easily used for graduate courses Open questions are often mentioned and the final section of each chapter discusses references to the literature and sometimes supplementary results Finally a detailed Table of Contents and an extensive Index are of help to consult this monograph [Cartesian Currents in the Calculus of Variations](#)

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Giaquinta, Giuseppe Modica, Jiri Soucek, 2013-03-14 Non scalar variational problems appear in different fields In geometry for instance we encounter the basic problems of harmonic maps between Riemannian manifolds and of minimal immersions related questions appear in physics for example in the classical theory of a models Non linear elasticity is another example in continuum mechanics while Oseen Frank theory of liquid crystals and Ginzburg Landau theory of superconductivity require to treat variational problems in order to model quite complicated phenomena Typically one is interested in finding energy minimizing representatives in homology or homotopy classes of maps minimizers with prescribed topological singularities topological charges stable deformations i.e. minimizers in classes of diffeomorphisms or extremal fields In the last two or three decades there has been growing interest knowledge and understanding of the general theory for this kind of problems often referred to as geometric variational problems Due to the lack of a regularity theory in the non scalar case in contrast to the scalar one or in other words to the occurrence of singularities in vector valued minimizers often related with concentration phenomena for the energy density and because of the particular relevance of those singularities for the problem being considered the question of singling out a weak formulation or completely understanding the significance of various weak formulations becomes non trivial *Cartesian Currents in the Calculus of Variations I* Mariano

Giaquinta, Giuseppe Modica, Jiri Soucek, 2010-12-01 This monograph in two volumes deals with non scalar variational problems arising in geometry as harmonic mappings between Riemannian manifolds and minimal graphs and in physics as stable equilibrium configurations in nonlinear elasticity or for liquid crystals The presentation is selfcontained and accessible to non specialists Topics are treated as far as possible in an elementary way illustrating results with simple examples in principle chapters and even sections are readable independently of the general context so that parts can be easily used for graduate courses Open questions are often mentioned and the final section of each chapter discusses references to the literature and sometimes supplementary results Finally a detailed Table of Contents and an extensive Index are of help to consult this monograph

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Mariano Giaquinta, Giuseppe Modica, Jiri Soucek, 1998-08-19 This monograph in two volumes deals with non scalar variational problems arising in geometry as harmonic mappings between Riemannian manifolds and minimal graphs and in physics as stable equilibrium configurations in nonlinear elasticity or for liquid crystals The presentation is selfcontained and accessible to non specialists Topics are treated as far as possible in an elementary way illustrating results with simple examples in principle chapters and even sections are readable independently of the general context so that parts can be easily used for graduate courses Open questions are often mentioned and the final section of each chapter discusses references to the literature and sometimes supplementary results Finally a detailed Table of Contents and an extensive Index are of help to consult this monograph

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**Unbounded Functionals in the Calculus of Variations** Luciano Carbone, Riccardo De Arcangelis, 2019-06-13 Over the last few decades research in elastic plastic torsion theory electrostatic screening and rubber like nonlinear elastomers has pointed the way to some interesting new classes of minimum problems for energy functionals of the calculus of variations

This advanced level monograph addresses these issues by developing the framework of a general **The Analysis of Harmonic Maps and Their Heat Flows** Fanghua Lin, Changyou Wang, 2008 This book contains the proceedings of the Fourth Meeting on CPT and Lorentz Symmetry held at Indiana University in Bloomington on August 8 11 2007 The Meeting focused on experimental tests of these fundamental symmetries and on important theoretical issues including scenarios for possible relativity violations Experimental subjects covered include astrophysical observations clock comparison measurements cosmological birefringence electromagnetic resonant cavities gravitational tests matter interferometry muon behavior neutrino oscillations oscillations and decays of neutral mesons particle antiparticle comparisons post Newtonian

gravity space based missions spectroscopy of hydrogen and antihydrogen and spin polarized matter Theoretical topics covered include physical effects at the level of the Standard Model General Relativity and beyond the possible origins and mechanisms for Lorentz and CPT violations and associated issues in field theory particle physics gravity and string theory The contributors consist of the leading experts in this very active research field

**Sobolev Maps to the Circle** Haim Brezis, Petru Mironescu, 2022-01-01 The theory of real valued Sobolev functions is a classical part of analysis and has a wide range of applications in pure and applied mathematics By contrast the study of manifold valued Sobolev maps is relatively new The incentive to explore these spaces arose in the last forty years from geometry and physics This monograph is the first to provide a unified comprehensive treatment of Sobolev maps to the circle presenting numerous results obtained by the authors and others Many surprising connections to other areas of mathematics are explored including the Monge Kantorovich theory in optimal transport items in geometric measure theory Fourier series and non local functionals occurring for example as denoising filters in image processing Numerous digressions provide a glimpse of the theory of sphere valued Sobolev maps Each chapter focuses on a single topic and starts with a detailed overview followed by the most significant results and rather complete proofs The Complements and Open Problems sections provide short introductions to various subsequent developments or related topics and suggest new directions of research Historical perspectives and a comprehensive list of references close out each chapter Topics covered include lifting point and line singularities minimal connections and minimal surfaces uniqueness spaces factorization density Dirichlet problems trace theory and gap phenomena Sobolev Maps to the Circle will appeal to mathematicians working in various areas such as nonlinear analysis PDEs geometric analysis minimal surfaces optimal transport and topology It will also be of interest to physicists working on liquid crystals and the Ginzburg Landau theory of superconductors

*The  $p$ -Harmonic Equation and Recent Advances in Analysis* Pietro Poggi-Corradini, 2005 Comprised of papers from the IIIrd Prairie Analysis Seminar held at Kansas State University this book reflects the many directions of current research in harmonic analysis and partial differential equations Included is the work of the distinguished main speaker Tadeusz Iwaniec his invited guests John Lewis and Juan Manfredi and many other leading researchers The main topic is the so called  $p$  harmonic equation which is a family of nonlinear partial differential equations generalizing the usual Laplace equation This study of  $p$  harmonic equations touches upon many areas of analysis with deep relations to functional analysis potential theory and calculus of variations The material is suitable for graduate students and research mathematicians interested in harmonic analysis and partial differential equations

**Nonlinear Analysis and Continuum Mechanics** Giuseppe Butazzo, Giovanni Paolo Galdi, Ermanno Lanconelli, Patrizia Pucci, 2012-12-06 The chapters in this volume deal with four fields with deep historical roots that remain active areas reasearch partial differential equations variational methods fluid mechanics and thermodynamics The collection is intended to serve two purposes First to honor James Serrin in whose work the four fields frequently interacted and second to bring

together work in fields that are usually pursued independently but that remain remarkably interrelated Serrin's contributions to mathematical analysis and its applications are fundamental and include such theorems and methods as the Gilbarg Serrin theorem on isolated singularities the Serrin symmetry theorem the Alexandrov Serrin moving plane technique The Peletier Serrin uniqueness theorem and the Serrin integral of the calculus of variations Serrin has also been noted for the elegance of his mathematical work and for the effectiveness of his teaching and collaborations

**Calculus of Variations** Diego Pallara, 2004

**First European Congress of Mathematics Paris, July 6-10, 1992** Anthony Joseph, Fulbert Mignot, Francois Murat, Bernard Prum, Rudolf Rentschler, 1994-07

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*One-dimensional Variational Problems* Giuseppe Buttazzo, Mariano Giaquinta, Stefan Hildebrandt, 1998

One dimensional variational problems have been somewhat neglected in the literature on calculus of variations as authors usually treat minimal problems for multiple integrals which lead to partial differential equations and are considerably more difficult to handle One dimensional problems are connected with ordinary differential equations and hence need many fewer technical prerequisites but they exhibit the same kind of phenomena and surprises as variational problems for multiple integrals This book provides an modern introduction to this subject placing special emphasis on direct methods It combines the efforts of a distinguished team of authors who are all renowned mathematicians and expositors Since there are fewer technical details graduate students who want an overview of the modern approach to variational problems will be able to concentrate on the underlying theory and hence gain a good grounding in the subject Except for results from the theory of measure and integration and from the theory of convex functions the text develops all mathematical tools needed including the basic results on one dimensional Sobolev spaces absolutely continuous functions and functions of bounded variation

**Mathematical Reviews**

,2008

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