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Functions of Bounded Variation and Free Discontinuity Problems

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Functions Of Bounded Variation And Free Discontinuity Problems

Xue-Cheng Tai, Egil Bae, Marius Lysaker

Functions Of Bounded Variation And Free Discontinuity Problems:

Discrete Differential Geometry Alexander I. Bobenko TU Berlin, Peter Schröder, John M. Sullivan, Günter M. Ziegler, 2008-03-27 This is the first book on a newly emerging field of discrete differential geometry providing an excellent way to access this exciting area. It provides discrete equivalents of the geometric notions and methods of differential geometry such as notions of curvature and integrability for polyhedral surfaces. The carefully edited collection of essays gives a lively multi-faceted introduction to this emerging field.

Approximation of Free-Discontinuity Problems Andrea Braides, 2006-11-13 Functionals involving both volume and surface energies have a number of applications ranging from Computer Vision to Fracture Mechanics. In order to tackle numerical and dynamical problems linked to such functionals many approximations by functionals defined on smooth functions have been proposed using high order singular perturbations, finite difference or non-local energies etc. The purpose of this book is to present a global approach to these approximations using the theory of Γ -convergence and of special functions of bounded variation. The book is directed to PhD students and researchers in calculus of variations interested in approximation problems with possible applications.

The Variational Approach to Fracture Blaise Bourdin, Gilles A. Francfort, Jean-Jacques Marigo, 2008-04-19 Presenting original results from both theoretical and numerical viewpoints, this text offers a detailed discussion of the variational approach to brittle fracture. This approach views crack growth as the result of a competition between bulk and surface energy treating crack evolution from its initiation all the way to the failure of a sample. The authors model crack initiation, crack path and crack extension for arbitrary geometries and loads.

Solvability, Regularity, and Optimal Control of Boundary Value Problems for PDEs Pierluigi Colli, Angelo Favini, Elisabetta Rocca, Giulio Schimperna, Jürgen Sprekels, 2017-11-03 This volume gathers contributions in the field of partial differential equations with a focus on mathematical models in phase transitions, complex fluids and thermomechanics. These contributions are dedicated to Professor Gianni Gilardi on the occasion of his 70th birthday. It particularly develops the following thematic areas: nonlinear dynamic and stationary equations, well-posedness of initial and boundary value problems for systems of PDEs, regularity properties for the solutions, optimal control problems and optimality conditions, feedback stabilization and stability results. Most of the articles are presented in a self-contained manner and describe new achievements and/or the state of the art in their line of research, providing interested readers with an overview of recent advances and future research directions in PDEs.

Variational Models and Methods in Solid and Fluid Mechanics Francesco dell'Isola, Sergey Gavrilyuk, 2012-01-15 F. dell'Isola, L. Placidi Variational principles are a powerful tool also for formulating field theories. F. dell'Isola, P. Seppecher, A. Madeo Beyond Euler-Cauchy Continua: The structure of contact actions in N -th gradient generalized continua: a generalization of the Cauchy tetrahedron argument. B. Bourdin, G. A. Francfort Fracture. S. Gavrilyuk Multiphase flow modeling via Hamilton's principle. V. L. Berdichevsky Introduction to stochastic variational problems. A. Carcaterra New concepts in damping: generation and control, theoretical formulation and industrial

applications F dell Isola P Seppecher A Madeo Fluid shock wave generation at solid material discontinuity surfaces in porous media Variational methods give an efficient and elegant way to formulate and solve mathematical problems that are of interest to scientists and engineers In this book three fundamental aspects of the variational formulation of mechanics will be presented physical mathematical and applicative ones The first aspect concerns the investigation of the nature of real physical problems with the aim of finding the best variational formulation suitable to those problems The second aspect is the study of the well posedness of those mathematical problems which need to be solved in order to draw previsions from the formulated models And the third aspect is related to the direct application of variational analysis to solve real engineering problems

Unbounded Functionals in the Calculus of Variations Luciano Carbone, 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 gener

European Congress of Mathematics Antal Balog, D. Szasz, A. Recski, G.D.H. Katona, 1998-07-21 This is the first volume of the proceedings of the second European Congress of Mathematics Volume I presents the speeches delivered at the Congress the list of lectures and short summaries of the achievements of the prize winners Together with volume II it contains a collection of contributions by the invited lecturers Finally volume II also presents reports on some of the Round Table discussions This two volume set thus gives an overview of the state of the art in many fields of mathematics and is therefore of interest to every professional mathematician Contributors Vol I N Alon L Ambrosio K Astala R Benedetti Ch Bessenrodt F Bethuel P Bj rstad E Bolthausen J Bricmont A Kupiainen D Burago L Caporaso U Dierkes I Dynnikov L H Eliasson W T Gowers H Hedenmalm A Huber J Kaczorowski J Koll r D O Kramkov A N Shiryaev C Lescop R M rz Vol II J Matousek D McDuff A S Merkurjev V Milman St M ller T Nowicki E Olivieri E Scoppola V P Platonov J P schel L Polterovich L Pyber N Sim nyi J P Solovej A Stipsicz G Tardos J P Tignol A P Veselov E Zuazua

Variational and PDE Methods in Nonlinear Science Fabrice Bethuel, Duvan Henao, Angkana Rüland, 2025-07-01 This book presents three short courses on topics at the intersection of Calculus of Variations PDEs and Material Science based on lectures given at the CIME summer school Variational and PDE Methods in Nonlinear Science held in Cetraro Italy July 10 14 2023 Fabrice Bethuel discusses asymptotics for Allen Cahn systems providing an overview of classical methods and tools for the scalar case and further results for the two dimensional vectorial case An alternate monotonicity formula is described and the still open parabolic vectorial case is considered Angkana Rüland considers the modelling and analysis of microstructures in shape memory alloys including material on quasiconvexity differential inclusions rigidity of the two well problem under BV regularity assumptions and recent results on the quantitative dichotomy between rigidity and flexibility Duvan Henao focuses on existence theory in nonlinear elasticity where a central role is played by the Jacobian determinant The methods developed have implications for the analysis of magnetoelasticity and

nematic elastomers The volume is aimed at graduate students and researchers interested in the applications of PDEs and the calculus of variations to the theory of phase transitions fluid dynamics materials science and elasticity theory Variational Problems in Materials Science Gianni Dal Maso, Antonio de Simone, Franco Tomarelli, 2006-06-23 This volume contains the proceedings of the international workshop Variational Problems in Materials Science Coverage includes the study of BV vector fields path functionals over Wasserstein spaces variational approaches to quasi static evolution free discontinuity problems with applications to fracture and plasticity systems with hysteresis or with interfacial energies evolution of interfaces multi scale analysis in ferromagnetism and ferroelectricity and much more *Multiscale, Nonlinear and Adaptive Approximation II* Ronald DeVore, Angela Kunoth, 2024-12-03 This book presents a collection of high quality papers in applied and numerical mathematics as well as approximation theory all closely related to Wolfgang Dahmen s scientific contributions Compiled in honor of his 75th birthday the papers are written by leading experts and cover topics including nonlinear approximation theory numerical analysis of partial differential equations learning theory and electron microscopy A unifying theme throughout the collection is the emphasis on a solid mathematical foundation which serves as the basis for the most efficient numerical algorithms used to simulate complex phenomena **Computer Vision - ECCV 2016** Bastian Leibe, Jiri Matas, Nicu Sebe, Max Welling, 2016-09-16 The eight volume set comprising LNCS volumes 9905 9912 constitutes the refereed proceedings of the 14th European Conference on Computer Vision ECCV 2016 held in Amsterdam The Netherlands in October 2016 The 415 revised papers presented were carefully reviewed and selected from 1480 submissions The papers cover all aspects of computer vision and pattern recognition such as 3D computer vision computational photography sensing and display face and gesture low level vision and image processing motion and tracking optimization methods physics based vision photometry and shape from X recognition detection categorization indexing matching segmentation grouping and shape representation statistical methods and learning video events activities and surveillance applications They are organized in topical sections on detection recognition and retrieval scene understanding optimization image and video processing learning action activity and tracking 3D and 9 poster sessions **Isoperimetric Inequalities in Riemannian Manifolds** Manuel Ritoré, 2023-10-06 This work gives a coherent introduction to isoperimetric inequalities in Riemannian manifolds featuring many of the results obtained during the last 25 years and discussing different techniques in the area Written in a clear and appealing style the book includes sufficient introductory material making it also accessible to graduate students It will be of interest to researchers working on geometric inequalities either from a geometric or analytic point of view but also to those interested in applying the described techniques to their field *Handbook of Differential Equations: Stationary Partial Differential Equations* Michel Chipot, Pavol Quittner, 2006-08-08 This handbook is volume III in a series devoted to stationary partial differential equations Similarly as volumes I and II it is a collection of self contained state of the art surveys written by well known experts in the field The topics covered by this handbook include singular and higher order

equations problems near critically problems with anisotropic nonlinearities dam problem T convergence and Schauder type estimates These surveys will be useful for both beginners and experts and speed up the progress of corresponding rapidly developing and fascinating areas of mathematics Key features Written by well known experts in the field Self contained volume in series covering one of the most rapid developing topics in mathematics Written by well known experts in the field Self contained volume in series covering one of the most rapid developing topics in mathematics

Variational Analysis in Sobolev and BV Spaces Hedy Attouch, Giuseppe Buttazzo, Gerard Michaille, 2014-10-02 This volume is an excellent guide for anyone interested in variational analysis optimization and PDEs It offers a detailed presentation of the most important tools in variational analysis as well as applications to problems in geometry mechanics elasticity and computer vision

Scale Space and Variational Methods in Computer Vision Xue-Cheng Tai, Knut Morken, Marius Lysaker, Knut-Andreas Lie, 2009-05-25 This book constitutes the refereed proceedings of the Second International Conference on Scale Space Methods and Variational Methods in Computer Vision SSVM 2009 emanated from the joint edition of the 5th International Workshop on Variational Geometric and Level Set Methods in Computer Vision VLSM 2009 and the 7th International Conference on Scale Space and PDE Methods in Computer Vision Scale Space 2009 held in Voss Norway in June 2009 The 71 revised full papers presented were carefully reviewed and selected numerous submissions The papers are organized in topical sections on segmentation and detection image enhancement and reconstruction motion analysis optical flow registration and tracking surfaces and shapes scale space and feature extraction

Handbook of Differential Equations: Evolutionary Equations C.M. Dafermos, Eduard Feireisl, 2011-09-22 The material collected in this volume reflects the active present of this area of mathematics ranging from the abstract theory of gradient flows to stochastic representations of non linear parabolic PDE s Articles will highlight the present as well as expected future directions of development of the field with particular emphasis on applications The article by Ambrosio and Savar discusses the most recent development in the theory of gradient flow of probability measures After an introduction reviewing the properties of the Wasserstein space and corresponding subdifferential calculus applications are given to evolutionary partial differential equations The contribution of Herrero provides a description of some mathematical approaches developed to account for quantitative as well as qualitative aspects of chemotaxis Particular attention is paid to the limits of cell scapability to measure external cues on the one hand and to provide an overall description of aggregation models for the slim mold Dictyostelium discoideum on the other The chapter written by Masmoudi deals with a rather different topic examples of singular limits in hydrodynamics This is nowadays a well studied issue given the amount of new results based on the development of the existence theory for rather general systems of equations in hydrodynamics The paper by DeLellis addresses the most recent results for the transport equations with regard to possible applications in the theory of hyperbolic systems of conservation laws Emphasis is put on the development of the theory in the case when the governing field is only a BV function The chapter by Rein represents a

comprehensive survey of results on the Poisson Vlasov system in astrophysics The question of global stability of steady states is addressed in detail The contribution of Soner is devoted to different representations of non linear parabolic equations in terms of Markov processes After a brief introduction on the linear theory a class of non linear equations is investigated with applications to stochastic control and differential games The chapter written by Zuazua presents some of the recent progresses done on the problem of controllability of partial differential equations The applications include the linear wave and heat equations parabolic equations with coefficients of low regularity and some fluid structure interaction models Volume 1 focuses on the abstract theory of evolution Volume 2 considers more concrete problems relating to specific applications Volume 3 reflects the active present of this area of mathematics ranging from the abstract theory of gradient flows to stochastic representations of non linear PDEs

Imaging, Vision and Learning Based on Optimization and PDEs

Xue-Cheng Tai, Egil Bae, Marius Lysaker, 2018-11-19 This volume presents the peer reviewed proceedings of the international conference Imaging Vision and Learning Based on Optimization and PDEs IVLOPDE held in Bergen Norway in August September 2016 The contributions cover state of the art research on mathematical techniques for image processing computer vision and machine learning based on optimization and partial differential equations PDEs It has become an established paradigm to formulate problems within image processing and computer vision as PDEs variational problems or finite dimensional optimization problems This compact yet expressive framework makes it possible to incorporate a range of desired properties of the solutions and to design algorithms based on well founded mathematical theory A growing body of research has also approached more general problems within data analysis and machine learning from the same perspective and demonstrated the advantages over earlier more established algorithms This volume will appeal to all mathematicians and computer scientists interested in novel techniques and analytical results for optimization variational models and PDEs together with experimental results on applications ranging from early image formation to high level image and data analysis

Direct Methods in the Calculus of Variations Bernard Dacorogna, 2007-11-21 This book is developed for the study of vectorial problems in the calculus of variations The subject is a very active one and almost half of the book consists of new material This is a new edition of the earlier book published in 1989 and it is suitable for graduate students The book has been updated with some new material and examples added Applications are included

Optimization and Control for Partial Differential Equations Roland Herzog, Matthias Heinkenschloss, Dante Kalise, Georg Stadler, Emmanuel Trélat, 2022-03-07 This book highlights new developments in the wide and growing field of partial differential equations PDE constrained optimization Optimization problems where the dynamics evolve according to a system of PDEs arise in science engineering and economic applications and they can take the form of inverse problems optimal control problems or optimal design problems This book covers new theoretical computational as well as implementation aspects for PDE constrained optimization problems under uncertainty in shape optimization and in feedback control and it illustrates the new

developments on representative problems from a variety of applications *Recent Advances in Nonlinear Analysis* Michel Chipot, Chang-Shou Lin, Dong-ho Tsai, 2008 This volume considers the most recent advances in various topics in partial differential equations Many important issues such as evolution problems their asymptotic behavior and their qualitative properties are addressed The quality and completeness of the articles make this book both a source of inspiration and reference for future research

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