

Progress in Nonlinear Differential Equations
and Their Applications

Pablo Pedregal

Parametrized Measures and Variational Principles

Birkhäuser

Parametrized Measures And Variational Principles

Mario Miranda



Parametrized Measures And Variational Principles:

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properties that finite dimensional spaces do basically bounded sequences are weak relatively compact sets Nonetheless weak convergence does not behave as one would desire with respect to nonlinear functionals and operations This difficulty is what makes nonlinear analysis much harder than would normally be expected Parametrized measures is a device to understand weak convergence and its behavior with respect to nonlinear functionals Under suitable hypotheses it yields a way of representing through integrals weak limits of compositions with nonlinear functions It is particularly helpful in comprehending oscillatory phenomena and in keeping track of how oscillations change when a nonlinear functional is applied Weak convergence also plays a fundamental role in the modern treatment of the calculus of variations again because uniform bounds in norm for sequences allow to have weak convergent subsequences In order to achieve the existence of minimizers for a particular functional the property of weak lower semicontinuity should be established first This is the crucial and most delicate step in the so called direct method of the calculus of variations A fairly large amount of work has been devoted to determine under what assumptions we can have this lower semicontinuity with respect to weak topologies for nonlinear functionals in the form of integrals The conclusion of all this work is that some type of convexity understood in a broader sense is usually involved

Parametrized Measures and Variational Principles Pablo Pedregal, 1997-03

Weak convergence is a basic tool of modern nonlinear analysis because it enjoys the same compactness properties that finite dimensional spaces do basically bounded sequences are weak relatively compact sets Nonetheless weak convergence does not behave as one would desire with respect to nonlinear functionals and operations This difficulty is what makes nonlinear analysis much harder than would normally be expected Parametrized measures is a device to understand weak convergence and its behavior with respect to nonlinear functionals Under suitable hypotheses it yields a way of representing through integrals weak limits of compositions with nonlinear functions It is particularly helpful in comprehending oscillatory phenomena and in keeping track of how oscillations change when a nonlinear functional is applied Weak convergence also plays a fundamental role in the modern treatment of the calculus of variations again because uniform bounds in norm for sequences allow to have weak convergent subsequences In order to achieve the existence of minimizers for a particular functional the property of weak lower semicontinuity should be established first This is the crucial and most delicate step in the so called direct method of the calculus of variations A fairly large amount of work has been devoted to determine under what assumptions we can have this lower semicontinuity with respect to weak topologies for nonlinear functionals in the form of integrals The conclusion of all this work is that some type of convexity understood in a broader sense is usually involved

Young Measures and Compactness in Measure Spaces Liviu C. Florescu, Christiane

Godet-Thobie, 2012-05-29 In recent years technological progress created a great need for complex mathematical models Many practical problems can be formulated using optimization theory and they hope to obtain an optimal solution In most cases such optimal solution can not be found So non convex optimization problems arising e.g. in variational calculus optimal

control nonlinear evolutions equations may not possess a classical minimizer because the minimizing sequences have typically rapid oscillations This behavior requires a relaxation of notion of solution for such problems often we can obtain such a relaxation by means of Young measures This monograph is a self contained book which gathers all theoretical aspects related to the defining of Young measures measurability disintegration stable convergence compactness a book which is also a useful tool for those interested in theoretical foundations of the measure theory It provides a complete set of classical and recent compactness results in measure and function spaces The book is organized in three chapters The first chapter covers background material on measure theory in abstract frame In the second chapter the measure theory on topological spaces is presented Compactness results from the first two chapters are used to study Young measures in the third chapter All results are accompanied by full demonstrations and for many of these results different proofs are given All statements are fully justified and proved

Robust Optimization-Directed Design Andrew J. Kurdila, Panos M. Pardalos, Michael Zabrankin, 2006-06-04 Robust design that is managing design uncertainties such as model uncertainty or parametric uncertainty is the often unpleasant issue crucial in much multidisciplinary optimal design work Recently there has been enormous practical interest in strategies for applying optimization tools to the development of robust solutions and designs in several areas including aerodynamics the integration of sensing e g laser radars vision based systems and millimeter wave radars and control cooperative control with poorly modeled uncertainty cascading failures in military and civilian applications multi mode seekers sensor fusion and data association problems and tracking systems The contributions to this book explore these different strategies The expression optimization directed in this book s title is meant to suggest that the focus is not agonizing over whether optimization strategies identify a true global optimum but rather whether these strategies make significant design improvements

partial differential equations and applications Giorgio Talenti, 2017-10-02 Written as a tribute to the mathematician Carlo Pucci on the occasion of his 70th birthday this is a collection of authoritative contributions from over 45 internationally acclaimed experts in the field of partial differential equations Papers discuss a variety of topics such as problems where a partial differential equation is coupled with unfavourable boundary or initial conditions and boundary value problems for partial differential equations of elliptic type

Partial Differential Equations and Related Subjects Mario Miranda, 1992 **SIAM Journal on Control and Optimization** Society for Industrial and Applied Mathematics, 2007 **Bulletin (new Series) of the American Mathematical Society**, 1999 *Bulletin of the American Mathematical Society*, 1999 *SIAM Journal on Scientific Computing*, 2001 *Advances in Mathematical Sciences and Applications*, 2008 *Ricerche di matematica*, 2010

Mathematical Reviews, 2007 **Discrete and Continuous Dynamical Systems**, 2006 *Proceedings of International Conference On: Free Boundary Problems, Theory and Applications* Nobuyuki Kenmochi, 2000 **Topological Methods in Nonlinear Analysis**, 2008 *Nieuw Archief Voor Wiskunde*, 1998 Russian Mathematical Surveys, 1960

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