

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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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

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