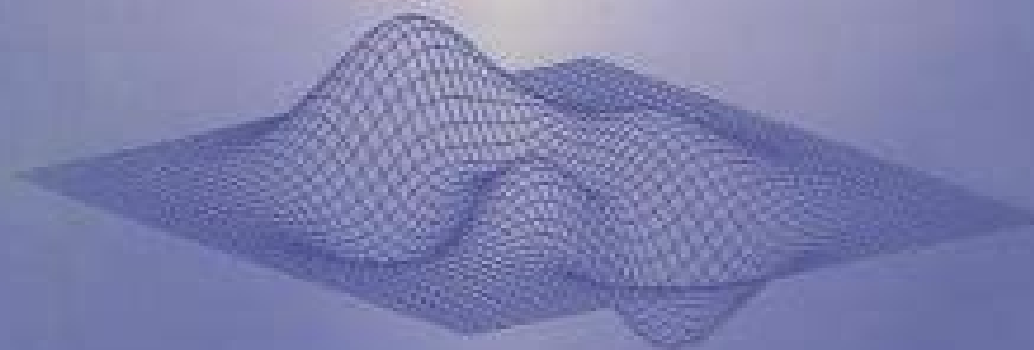


NONCONVEX OPTIMIZATION AND ITS APPLICATIONS

# **An Introduction to Minimax Theorems and Their Applications to Differential Equations**

Maria do Rosário Grossinho and Stepan Agap Tersian



Kluwer Academic Publishers

# Minimax Theorems

**Lowell W. Beineke, Robin J. Wilson**



## Minimax Theorems:

**Minimax Theorems** Michel Willem, 2012-12-06 Many boundary value problems are equivalent to  $Au = 0$  where  $A: X \rightarrow Y$  is a mapping between two Banach spaces. When the problem is variational, there exists a differentiable functional and  $\inf$

**Minimax and Applications** Ding-Zhu Du, Panos M. Pardalos, 2013-12-01 Techniques and principles of minimax theory play a key role in many areas of research including game theory, optimization, and computational complexity. In general, a minimax problem can be formulated as  $\min_{x \in X} \max_{y \in Y} f(x, y)$  where  $f(x, y)$  is a function defined on the product of  $X$  and  $Y$  spaces. There are two basic issues regarding minimax problems. The first issue concerns the establishment of sufficient and necessary conditions for equality  $\min_{x \in X} \max_{y \in Y} f(x, y) = \max_{y \in Y} \min_{x \in X} f(x, y)$ . The classical minimax theorem of von Neumann is a result of this type. Duality theory in linear and convex quadratic programming interprets minimax theory in a different way. The second issue concerns the establishment of sufficient and necessary conditions for values of the variables  $x$  and  $y$  that achieve the global minimax function value  $f(x, y) = \min_{x \in X} \max_{y \in Y} f(x, y)$ . There are two developments in minimax theory that we would like to mention.

*Minimax Theory and Applications* Biagio Ricceri, Stephen Simons, 2013-06-29 The present volume contains the proceedings of the workshop on Minimax Theory and Applications that was held during the week 30 September 6 October 1996 at the G Stampacchia International School of Mathematics of the E Majorana Centre for Scientific Culture in Erice, Italy. The main theme of the workshop was minimax theory in its most classical meaning. That is to say, given a real valued function  $f$  on a product space  $X \times Y$ , one tries to find conditions that ensure the validity of the equality  $\sup_{x \in X} \inf_{y \in Y} f(x, y) = \inf_{y \in Y} \sup_{x \in X} f(x, y)$ . This is not an appropriate place to enter into the technical details of the proofs of minimax theorems or into the history of the contributions to the solution of this basic problem in the last 7 decades. But we do want to stress its intrinsic interest and point out that in spite of its extremely simple formulation it conceals a great wealth of ideas. This is clearly shown by the large variety of methods and tools that have been used to study it. The applications of minimax theory are also extremely interesting. In fact, the need for the ability to switch quantifiers arises in a seemingly boundless range of different situations. So the good quality of a minimax theorem can also be judged by its applicability. We hope that this volume will offer a rather complete account of the state of the art of the subject.

**An Introduction to Minimax Theorems and Their Applications to Differential Equations** Maria do Rosário Grossinho, Stepan Agop

Tersian, 2013-06-29 The book is intended to be an introduction to critical point theory and its applications to differential equations. Although the related material can be found in other books, the authors of this volume have had the following goals in mind: To present a survey of existing minimax theorems; To give applications to elliptic differential equations in bounded domains; To consider the dual variational method for problems with continuous and discontinuous nonlinearities; To present some elements of critical point theory for locally Lipschitz functionals and give applications to fourth order differential equations with discontinuous nonlinearities; To study homoclinic solutions of differential equations via the variational

methods The contents of the book consist of seven chapters each one divided into several sections Audience Graduate and post graduate students as well as specialists in the fields of differential equations variational methods and optimization

Minimax and Monotonicity Stephen Simons, 2006-11-14 Focussing on the theory both classical and recent of monotone multifunctions on a possibly nonreflexive Banach space this book looks at the big convexification of a multifunction convex functions associated with a multifunction minimax theorems as a tool in functional analysis and convex analysis It includes new results on the existence of continuous linear functionals the conjugates biconjugates and subdifferentials of convex lower semicontinuous functions Fenchel duality possibly unbounded positive linear operators from a Banach space into its dual the sum of maximal monotone operators and a list of open problems The reader is expected to know basic functional analysis and calculus of variations including the Bahn Banach theorem Banach Alaoglu theorem Ekeland's variational principle

**Minimax Theorems and Qualitative Properties of the Solutions of Hemivariational Inequalities** Dumitru Motreanu, P. D. Panagiotopoulos, 1999 The present book is the first ever published in which a new type of eigenvalue problem is studied one that is very useful for applications eigenvalue problems related to hemivariational inequalities i.e. involving nonsmooth nonconvex energy functions New existence multiplicity and perturbation results are proved using three different approaches minimization minimax methods and subcritical point theory Nonresonant and resonant cases are studied both for static and dynamic problems and several new qualitative properties of the hemivariational inequalities are obtained Both simple and double eigenvalue problems are studied as well as those constrained on the sphere and those which are unconstrained The book is self contained is written with the utmost possible clarity and contains highly original results Applications concerning new stability results for beams plates and shells with adhesive supports etc illustrate the theory Audience applied and pure mathematicians civil aeronautical and mechanical engineers

**Minimax Methods in Critical Point Theory with Applications to Differential Equations** Paul H. Rabinowitz, Conference Board of the Mathematical Sciences, 1986-07-01 The book provides an introduction to minimax methods in critical point theory and shows their use in existence questions for nonlinear differential equations An expanded version of the author's 1984 CBMS lectures this volume is the first monograph devoted solely to these topics Among the abstract questions considered are the following the mountain pass and saddle point theorems multiple critical points for functionals invariant under a group of symmetries perturbations from symmetry and variational methods in bifurcation theory The book requires some background in functional analysis and differential equations especially elliptic partial differential equations It is addressed to mathematicians interested in differential equations and or nonlinear functional analysis particularly critical point theory

**KKM Theory and Applications in Nonlinear Analysis** George Xian-Zhi Yuan, 1999-02-09 This reference provides a lucid introduction to the principles and applications of Knaster Kuratowski Mazurkiewicz KKM theory and explores related topics in nonlinear set valued analysis

*Introduction to Minimax* V. F. Dem'yanov, V. N. Malozemov, 1990-01-01 Geared toward students of

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## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Minimax Theorems**

In a global inundated with monitors and the cacophony of immediate interaction, the profound energy and mental resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the regular barrage of sound and distractions. Yet, nestled within the musical pages of **Minimax Theorems**, a interesting function of literary splendor that pulses with fresh feelings, lies an memorable journey waiting to be embarked upon. Written by a virtuoso wordsmith, that enchanting opus manuals readers on an emotional odyssey, delicately revealing the latent possible and profound affect stuck within the intricate web of language. Within the heart-wrenching expanse with this evocative analysis, we shall embark upon an introspective exploration of the book is main subjects, dissect its fascinating publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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