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Minimax Methods In Critical Point

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Rabinowitz, P.H.: Minimax methods in Critical Point Theory with applications to differential equations, CBMS Regional Conference Series in Mathematics, Amer. Math. Soc. 65, 1986.

The Minimax Approach to the Critical Point Theory ...

Based on the local theory, a new local numerical minimax method for finding multiple saddle points is developed. The local theory is applied, and the numerical method is implemented successfully to solve a class of semilinear elliptic boundary value problems for multiple solutions on some nonconvex, non star-shaped and multiconnected domains.

A Minimax Method for Finding Multiple Critical Points and ...

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

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author's 1984 CBMS lectures, this volume is the first monograph devoted solely to these topics.

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MINIMAX METHODS IN CRITICAL POINT THEORY WITH APPLICATIONS TO DIFFERENTIAL EQUATIONS (CBMS Regional Conference Series in Mathematics 65) E. N. Dancer Search for more papers by this author

MINIMAX METHODS IN CRITICAL POINT THEORY WITH APPLICATIONS ...

Minimax Methods in Critical Point Theory with Applications to Differential Equations About this Title. Paul H. Rabinowitz, University of Wisconsin, Madison, Madison, WI. Publication: CBMS Regional Conference Series in Mathematics Publication Year 1986: Volume 65 ISBNs: 978-0-8218-0715-6 (print);

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978-1-4704-2425-1 (online)

Minimax Methods in Critical Point Theory with Applications ...

The local minimax method is used to locate an initial guess and a version of the generalized Newton method is used to speed up convergence.

A Local Minimax-Newton Method for Finding Multiple Saddle ...

A Minimax Method for Finding Multiple Critical Points and Its Applications to Semilinear PDE by Yongxin Li, Jianxin Zhou - SIAM J. Sci. Comp Most minimax theorems in critical point theory require one to solve a two-level global optimization problem and therefore are not for algorithm implementation.

Minimax methods in critical point theory with

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This monograph is an expanded version of a CBMS series of lectures delivered in Miami in January, 1984. As in the lectures our goal is to provide an introduction to minimax methods in critical point theory and their application to problems in differential equations. The presentation of the abstract minimax theory is essentially self-contained.

MINIMAX METHODS TO DIFFERENTIAL EQUATIONS

- P. Rabinowitz, "Minimax Methods and Critical Point Theory and Applications to Differential Equations"; - J.Mawhin, M.Willem, Critical Point Theory and Hamiltonian Systems; 3 Euler Equation and Applications The classical approach of the calculus of variations consists of, as remarked earlier, to find the critical points of a given functional.

An introduction to Critical Point Theory

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First we will examine contributions to the minimax approach to critical point theory. In particular the Mountain Pass Theorem, the Saddle Point Theorem, and variants thereupon will be discussed in Part 1.

Critical Point Theory and Applications to Differential ...

It is worth noting that generalizations of the minimax results cited in (a)–(c), relative to critical point theories for certain classes of nondifferentiable functionals, can already be found in the literature and have numerous applications to partial differential equations, differential inclusions, variational inequalities, hemivariational inequalities, and variational-hemivariational ...

Minimax Results with Respect to Different Altitudes in the ...

Convergence Results of A Local Minimax Method for Finding

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Multiple Critical Points Yongxin Li and Jianxin Zhou y Abstract In [14], a new local minimax method that characterizes a saddle point as a solution to a local minimax problem is established. Based on the local characterization, a

Convergence Results of A Local Minimax Method for Finding ...

Minimax Methods in Critical Point Theory with Applications To Differential Equations, CBMS Reg. Conf. Ser. in Math., vol. 65, Amer. Math. Soc., Providence (1986) Google Scholar This work is supported by NSFC (11571207 , 11871251) and the Taishan Scholar project .

Existence of solution of a three-point boundary value ...

Minimax methods in critical point theory with applications to differential equations by Paul H. Rabinowitz 2 Want to read Published 1986 by Published for the Conference Board of the

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(PDF) Critical Point Theory and the Minimax Principle

In this paper, a local minimax-Newton method is developed to solve for multiple saddle points. The local minimax method [SIAM J. Sci. Comput ., 23 (2001), pp. 840--865]. is used to locate an initial guess and a version of the generalized Newton method is used to speed up convergence.

A Local Minimax-Newton Method for Finding Multiple

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Saddle ...

Minimax Systems and Critical Point Theory is accessible to graduate students with some background in functional analysis, and the new material makes this book a useful reference for researchers and mathematicians. Review of the author's previous Birkhäuser work, Linking Methods in Critical Point Theory:

Minimax Systems and Critical Point Theory | Martin ...

Xudong Yao, A minimax method for finding saddle points of upper semi-differentiable locally Lipschitz continuous functional in Banach space and its convergence, Journal of Computational and Applied Mathematics, 10.1016/j.cam.2015.09.025, 296, (528-549), (2016).

Remarks on finding critical points - Brezis - 1991 ...

The classical approach was to look for maxima or minima. If one

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is looking for a minimum, one can begin by considering a minimizing sequence (1) $G(u_k) \rightarrow c$, where $c = \inf G$. If one can

show that such a sequence converges or has a convergent subsequence, then indeed the limit is a critical point.

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