

# Critical Point Theory And Its Applications

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## Minimax Methods in Critical Point Theory with Applications to Differential Equations

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Critical Point Theory and Its Applications presents some of the latest research in the area of critical point theory. Researchers have obtained many new results. Since the birth of the calculus of variations, researchers have discovered that variational methods, when they apply, can obtain better results than most other. This book presents some of the latest research in critical point theory, describing methods and presenting the newest applications. Coverage includes extrema. You are here. Home MAA Press MAA Reviews Critical Point Theory and Its Applications. Critical Point Theory and Its Applications. Request PDF on ResearchGate Critical Point Theory and Its Applications Since the birth of the calculus of variations, researchers have discovered that. This book presents some of the latest research in critical point theory, describing methods and presenting the newest applications. Coverage. This notes are the result of two Ph.D. courses I held at the University of Florence in Spring, and in Spring on Critical Point Theory, as well as of the. It is well known that the Morse index of any critical point of  $I$  must necessarily be infinite. In this case usually one can not expect to obtain any useful information. We prove the existence of nontrivial critical points of functionals with a local linking at 0. Applications to elliptic boundary value problems and to Hamiltonian. In this paper, we prove a Pucci-Serrin type three critical points theorem for continuous functionals and study its application to quasilinear elliptic equations with. Trove: Find and get Australian resources. Books, images, historic newspapers, maps, archives and more. After giving computations for a number of examples, we present an application of the theory to the problem of finding critical points of invariant functionals. Other applications of critical point theory. Part I is concerned with the existence of nondegenerate functions on regular manifolds in euclidean spaces. See Morse. The collection of the results of the above theories is called Non-smooth Critical Point Theory. Both critical point theories have several applications: in the theory. The thesis consists of four papers which all regard the study of critical point theory and its applications to boundary value problems of semilinear elliptic. The Applications of Critical-Point Theory to Discontinuous Fractional-Order Differential Equations - Volume 60 Issue 4 - Yu Tian, Juan J. Nieto. This theorem implies the existence of an infinite number of critical points in the ring We refer to the monographs [5] and [6] for applications to nonlinear. In this paper, we prove a generalized critical point theorem under the condition (C), which is weaker than the (PS) condition. As its applications, we obtain the. A perturbation method in critical point theory and applications A perturbation argument enables one to use the properties of some associated even functional. Nonsmooth Critical Point Theory and Nonlinear Boundary Value Problems - CRC Press Book. Series: Mathematical Analysis and Applications developed some remarkable nonsmooth extensions of the existing critical point theory. Nonlinear elliptic partial differential equation, critical point, perturbation, contractible set straightforward application of the implicit function theorem. The results.

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