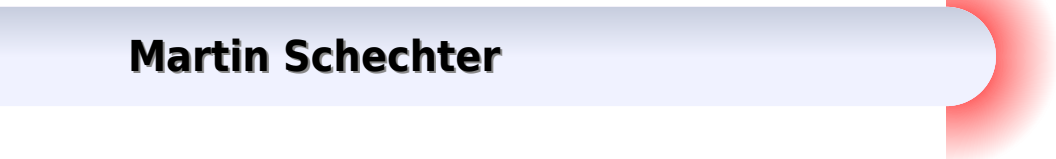


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Critical Point Theory and Its Applications

Critical Point Theory And Its Applications

Martin Schechter



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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

Pfahlgründungen Dimitrios Kolymbas, 1989

Topics in Critical Point Theory Kanishka Perera, Martin Schechter, 2013 Provides an introduction to critical point theory and shows how it solves many difficult problems

Sign-Changing Critical Point Theory Wenming Zou, 2008-12-15 Many nonlinear problems in physics engineering biology and social sciences can be reduced to finding critical points of functionals While minimax and Morse theories provide answers to many situations and problems on the existence of multiple critical points of a functional they often cannot provide much needed additional properties of these critical points Sign changing critical point theory has emerged as a new area of rich research on critical points of a differentiable functional with important applications to nonlinear elliptic PDEs Key features of this book

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- 2 Further explorations in Minimax and Morse theories
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- 4 Applies sign changing concepts to Schrödinger equations and boundary value problems

This book is intended for advanced graduate students and researchers involved in sign changing critical point theory PDEs global analysis and nonlinear functional analysis

Critical Point Theory and Hamiltonian Systems Jean Mawhin, 2013-04-17 FACHGEB The last decade has seen a tremendous development in critical point theory in infinite dimensional spaces and its application to nonlinear boundary value problems In particular striking results were

obtained in the classical problem of periodic solutions of Hamiltonian systems This book provides a systematic presentation of the most basic tools of critical point theory minimization convex functions and Fenchel transform dual least action principle Ekeland variational principle minimax methods Lusternik Schirelmann theory for Z_2 and S^1 symmetries Morse theory for possibly degenerate critical points and non degenerate critical manifolds Each technique is illustrated by applications to the discussion of the existence multiplicity and bifurcation of the periodic solutions of Hamiltonian systems Among the treated questions are the periodic solutions with fixed period or fixed energy of autonomous systems the existence of subharmonics in the non autonomous case the asymptotically linear Hamiltonian systems free and forced superlinear problems Application of those results to the equations of mechanical pendulum to Josephson systems of solid state physics and to questions from celestial mechanics are given The aim of the book is to introduce a reader familiar to more classical techniques of ordinary differential equations to the powerful approach of modern critical point theory The style of the exposition has been adapted to this goal The new topological tools are introduced in a progressive but detailed way and immediately applied to differential equation problems The abstract tools can also be applied to partial differential equations and the reader will also find the basic references in this direction in the bibliography of more than 500 items which concludes the book

ERSCHEIN An Alternative Approach to Critical Point Theory and Its Applications to Hamiltonian Systems Leiping Yu,1998 Critical Point Theory Martin Schechter,2020-05-30 This monograph collects cutting edge results and techniques for solving nonlinear partial differential equations using critical points Including many of the author s own contributions a range of proofs are conveniently collected here Because the material is approached with rigor this book will serve as an invaluable resource for exploring recent developments in this active area of research as well as the numerous ways in which critical point theory can be applied Different methods for finding critical points are presented in the first six chapters The specific situations in which these methods are applicable is explained in detail Focus then shifts toward the book s main subject applications to problems in mathematics and physics These include topics such as Schr dinger equations Hamiltonian systems elliptic systems nonlinear wave equations nonlinear optics semilinear PDEs boundary value problems and equations with multiple solutions Readers will find this collection of applications convenient and thorough with detailed proofs appearing throughout Critical Point Theory will be ideal for graduate students and researchers interested in solving differential equations and for those studying variational methods An understanding of fundamental mathematical analysis is assumed In particular the basic properties of Hilbert and Banach spaces are used **Critical Point Theory in Global Analysis and Differential Topology** ,2014-05-14 Critical Point Theory in Global Analysis and Differential Topology

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