



Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74)

Jean Mawhin

Download now

[Click here](#) if your download doesn't start automatically

Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74)

Jean Mawhin

Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) Jean Mawhin
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. ERSCHEN

 [Download Critical Point Theory and Hamiltonian Systems \(App ...pdf](#)

 [Read Online Critical Point Theory and Hamiltonian Systems \(A ...pdf](#)

Download and Read Free Online Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) Jean Mawhin

From reader reviews:

Ricky Streeter:

Have you spare time for any day? What do you do when you have much more or little spare time? Yep, you can choose the suitable activity regarding spend your time. Any person spent their spare time to take a stroll, shopping, or went to typically the Mall. How about open or perhaps read a book called Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74)? Maybe it is to get best activity for you. You recognize beside you can spend your time with the favorite's book, you can better than before. Do you agree with it is opinion or you have various other opinion?

James Alvarez:

Information is provisions for those to get better life, information currently can get by anyone on everywhere. The information can be a know-how or any news even an issue. What people must be consider if those information which is inside the former life are difficult to be find than now could be taking seriously which one would work to believe or which one often the resource are convinced. If you have the unstable resource then you obtain it as your main information there will be huge disadvantage for you. All of those possibilities will not happen in you if you take Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) as the daily resource information.

Teresa Hennessey:

The book with title Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) contains a lot of information that you can discover it. You can get a lot of profit after read this book. This particular book exist new knowledge the information that exist in this guide represented the condition of the world right now. That is important to yo7u to find out how the improvement of the world. This specific book will bring you within new era of the glowbal growth. You can read the e-book on your smart phone, so you can read that anywhere you want.

Tara Cassell:

The book untitled Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) contain a lot of information on that. The writer explains the girl idea with easy approach. The language is very easy to understand all the people, so do not worry, you can easy to read that. The book was authored by famous author. The author brings you in the new period of time of literary works. You can read this book because you can read more your smart phone, or product, so you can read the book with anywhere and anytime. If you want to buy the e-book, you can available their official web-site along with order it. Have a nice learn.

**Download and Read Online Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) Jean Mawhin
#UI0V7JAN5ZF**

Read Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) by Jean Mawhin for online ebook

Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) by Jean Mawhin
Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) by Jean Mawhin books to read online.

Online Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) by Jean Mawhin ebook PDF download

Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) by Jean Mawhin Doc

Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) by Jean Mawhin Mobipocket

Critical Point Theory and Hamiltonian Systems (Applied Mathematical Sciences) (v. 74) by Jean Mawhin EPub