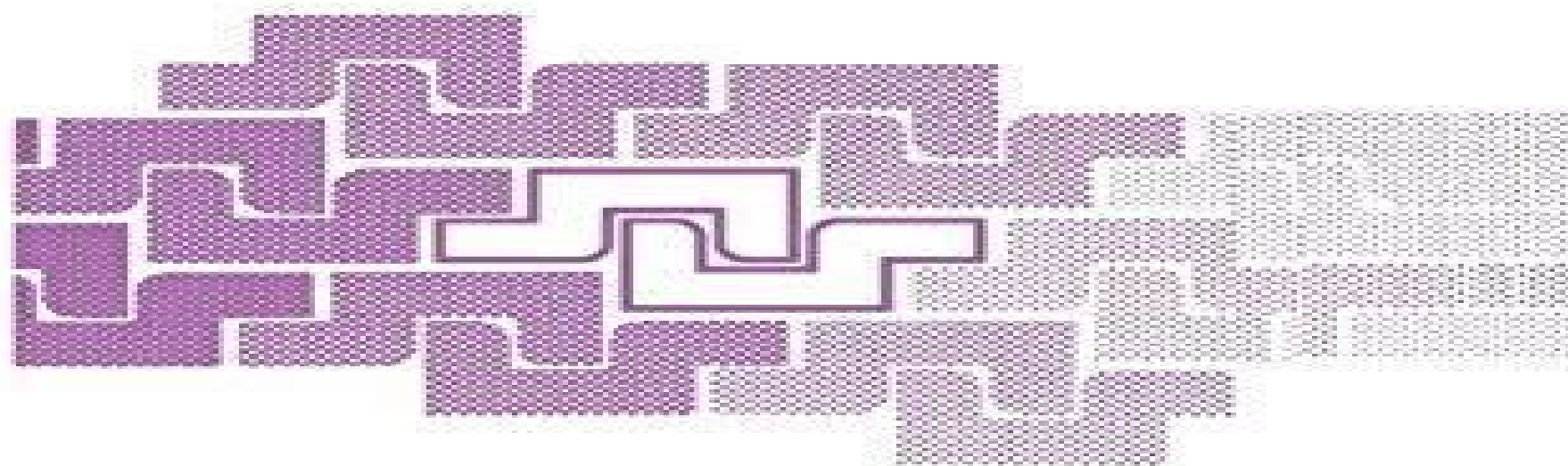




Periodic Solutions of Hamiltonian Systems and Related Topics

edited by

P. H. Rabinowitz, A. Ambrosetti,
I. Ekeland and E. J. Zehnder

NATO ASI Series

Series C: Mathematical and Physical Sciences Vol. 209

Periodic Solutions Of Hamiltonian Systems And Related Topics

Youssef Jabri



Periodic Solutions Of Hamiltonian Systems And Related Topics:

Periodic Solutions of Hamiltonian Systems and Related Topics P.H. Rabinowitz, A. Ambrosetti, I. Ekeland, E.J.

Zehnder, 2012-12-06 This volume contains the proceedings of a NATO Advanced Research Workshop on Periodic Solutions of Hamiltonian Systems held in II Ciocco Italy on October 13 17 1986 It also contains some papers that were an outgrowth of the meeting On behalf of the members of the Organizing Committee who are also the editors of these proceedings I thank all those whose contributions made this volume possible and the NATO Science Committee for their generous financial support Special thanks are due to Mrs Sally Ross who typed all of the papers in her usual outstanding fashion Paul H Rabinowitz Madison Wisconsin April 2 1987 xi 1 PERIODIC SOLUTIONS OF SINGULAR DYNAMICAL SYSTEMS Antonio Ambrosetti Vittorio Coti Zelati Scuola Normale Superiore SISSA Piazza dei Cavalieri Strada Costiera 11 56100 Pisa Italy 34014 Trieste Italy ABSTRACT The paper contains a discussion on some recent advances in the existence of periodic solutions of some second order dynamical systems with singular potentials The aim of this paper is to discuss some recent advances in the existence of periodic solutions of some second order dynamical systems with singular potentials **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 ERSCHEN Dynamical Systems And Related Topics - Proceedings Of The International Conference K Shiraiwa, 1991-11-29 This volume contains the proceedings of a satellite conference of the 1990 International Congress of Mathematicians The main topics presented are mathematical theory of dynamical systems complex dynamical systems

ergodic theory chaos and applications *Handbook of Dynamical Systems* B. Hasselblatt, A. Katok, 2002-08-20 Volumes 1A and 1B These volumes give a comprehensive survey of dynamics written by specialists in the various subfields of dynamical systems The presentation attains coherence through a major introductory survey by the editors that organizes the entire subject and by ample cross references between individual surveys The volumes are a valuable resource for dynamicists seeking to acquaint themselves with other specialties in the field and to mathematicians active in other branches of mathematics who wish to learn about contemporary ideas and results dynamics Assuming only general mathematical knowledge the surveys lead the reader towards the current state of research in dynamics Volume 1B will appear 2005

Proceedings of the Conference on Advances in Dynamical Systems and Quantum Physics Conference on Advances in Dynamical Systems and Quantum Physics 1993, Capri, Italy, Sergio Albeverio, 1995 This volume contains contributions from the meeting held in honour of G F Dell Antonio for his sixtieth birthday The topics covered include the theory of classical and quantum dynamical systems and related mathematical disciplines such as functional and stochastic analysis operator algebras etc The contributions by leading specialists survey recent developments in Hamiltonian dynamics non commutative integration supersymmetric theories spin glass theory and other subjects in mathematical physics

Convexity Methods in Hamiltonian Mechanics Ivar Ekeland, 2012-12-06 In the case of completely integrable systems periodic solutions are found by inspection For nonintegrable systems such as the three body problem in celestial mechanics they are found by perturbation theory there is a small parameter in the problem the mass of the perturbing body for instance and for 0 the system becomes completely integrable One then tries to show that its periodic solutions will subsist for 0 small enough Poincare also introduced global methods relying on the topological properties of the flow and the fact that it preserves the 2 form $L \lrcorner d\pi - 1 \lrcorner dq$ The most celebrated result he obtained in this direction is his last geometric theorem which states that an area preserving map of the annulus which rotates the inner circle and the outer circle in opposite directions must have two fixed points And now another ancient theme appear the least action principle It states that the periodic solutions of a Hamiltonian system are extremals of a suitable integral over closed curves In other words the problem is variational This fact was known to Fermat and Maupertuis put it in the Hamiltonian formalism In spite of its great aesthetic appeal the least action principle has had little impact in Hamiltonian mechanics There is of course one exception Emmy Noether's theorem which relates integrals of the motion to symmetries of the equations But until recently no periodic solution had ever been found by variational methods **Variational Methods in Nonlinear Analysis** Antonio Ambrosetti, K. C.

Chang, 1995 Very Good No Highlights or Markup all pages are intact **Handbook of Differential Equations: Ordinary Differential Equations** A. Canada, P. Drabek, A. Fonda, 2004-09-09 The book contains seven survey papers about ordinary differential equations The common feature of all papers consists in the fact that nonlinear equations are focused on This reflects the situation in modern mathematical modelling nonlinear mathematical models are more realistic and describe the

real world problems more accurately The implications are that new methods and approaches have to be looked for developed and adopted in order to understand and solve nonlinear ordinary differential equations The purpose of this volume is to inform the mathematical community and also other scientists interested in and using the mathematical apparatus of ordinary differential equations about some of these methods and possible applications **The Breadth of Symplectic and Poisson Geometry**

Jerrold E. Marsden, Tudor S. Ratiu, 2007-07-03 The invited papers in this volume are written in honor of Alan Weinstein one of the world's foremost geometers Contributions cover a broad range of topics in symplectic and differential geometry Lie theory mechanics and related fields Intended for graduate students and working mathematicians this text is a distillation of prominent research and an indication of future trends in geometry mechanics and mathematical physics

The Mountain Pass Theorem Youssef Jabri, 2003-09-15 This 2003 book presents min max methods through a study of the different faces of the celebrated Mountain Pass Theorem MPT of Ambrosetti and Rabinowitz The reader is led from the most accessible results to the forefront of the theory and at each step in this walk between the hills the author presents the extensions and variants of the MPT in a complete and unified way Coverage includes standard topics but it also covers other topics covered nowhere else in book form the non smooth MPT the geometrically constrained MPT numerical approaches to the MPT and even more exotic variants Each chapter has a section with supplementary comments and bibliographical notes and there is a rich bibliography and a detailed index to aid the reader The book is suitable for researchers and graduate students Nevertheless the style and the choice of the material make it accessible to all newcomers to the field *Index*

theory in nonlinear analysis Chungen Liu, 2019-05-22 This book provides detailed information on index theories and their applications especially Maslov type index theories and their iteration theories for non periodic solutions of Hamiltonian systems It focuses on two index theories L index theory index theory for Lagrangian boundary conditions and P index theory index theory for P boundary conditions In addition the book introduces readers to recent advances in the study of index theories for symmetric periodic solutions of nonlinear Hamiltonian systems and for selected boundary value problems involving partial differential equations **Analysis, et Cetera**

Paul H. Rabinowitz, Eduard Zehnder, 2014-05-10 Analysis et cetera Research Papers Published in Honor of Jürgen Moser's 60th Birthday provides a collection of papers dedicated to Jürgen Moser on the occasion of his 60th birthday This book covers a variety of topics including Helmholtz equation algebraic complex integrability theory of Lie groups and trigonometric polynomials Organized into 31 chapters this book begins with an overview of some basic consequences of the definition of algebraic complete integrability This text then derives a representation theorem for solutions of the Helmholtz equation Other chapters consider the integrable generalizations of the Volterra system and explain the dynamical system in the finite dimensional case This book discusses as well the global periodic solutions for the planar triple pendulum The final chapter deals with the problem of deriving the macroscopic conservation laws or the Euler equations in accurate fashion from the microscopic equations of classical mechanics This book

is a valuable resource for mathematicians *Symplectic Invariants and Hamiltonian Dynamics* Helmut Hofer, Eduard Zehnder, 1994 The discoveries of the last decades have opened new perspectives for the old field of Hamiltonian systems and led to the creation of a new field symplectic topology Surprising rigidity phenomena demonstrate that the nature of symplectic mappings is very different from that of volume preserving mappings On the other hand analysis of an old variational principle in classical mechanics has established global periodic phenomena in Hamiltonian systems One of the links is a class of symplectic invariants called symplectic capacities These invariants are the main theme of this book which includes such topics as basic symplectic geometry symplectic capacities and rigidity periodic orbits for Hamiltonian systems and the action principle a bi invariant metric on the symplectic diffeomorphism group and its geometry symplectic fixed point theory the Arnold conjectures and first order elliptic systems and finally a survey on Floer homology and symplectic homology [Index Theory for Symplectic Paths with Applications](#) Yiming Long, 2012-12-06 This book is based upon my monograph *Index Theory for Hamiltonian Systems with Applications* published in 1993 in Chinese and my notes for lectures and courses given at Nankai University Brigham Young University ICTP Trieste and the Institute of Mathematics of Academia Sinica during the last ten years The aim of this book is twofold 1 to give an introduction to the index theory for symplectic matrix paths and its iteration theory which form a basis for the Morse theoretical study on Hamiltonian systems and to give applications of this theory to periodic boundary value problems of nonlinear Hamiltonian systems Here the iteration theory means the index theory of iterations of periodic solutions and symplectic matrix paths 2 to serve as a reference book on these topics There are many different ways to introduce the index theory for symplectic paths in order to establish Morse type index theory of Hamiltonian systems In this book I have chosen a relatively elementary way i e the homotopy classification method of symplectic matrix paths It depends only on linear algebra point set topology and certain basic parts of linear functional analysis I have tried to make this part of the book self contained and at the same time include all of the major results on these topics so that researchers and students interested in them can read it without substantial difficulties and can learn the main results in this area for their possible applications *Variational Methods* BERESTYCKI, 2012-12-06 In the framework of the Année non linéaire the special nonlinear year sponsored by the C N R S the French National Center for Scientific Research a meeting was held in Paris in June 1988 It took place in the Conference Hall of the Ministère de la Recherche and had as an organizing theme the topic of Variational Problems Nonlinear analysis has been one of the leading themes in mathematical research for the past decade The use of direct variational methods has been particularly successful in understanding problems arising from physics and geometry The growth of nonlinear analysis is largely due to the wealth of applications from various domains of sciences and industrial applications Most of the papers gathered in this volume have their origin in applications from mechanics the study of Hamiltonian systems from physics from the recent mathematical theory of liquid crystals from geometry relativity etc Clearly no single volume could pretend to cover the whole scope of

nonlinear variational problems We have chosen to concentrate on three main aspects of these problems organizing them roughly around the following topics 1 Variational methods in partial differential equations in mathematical physics 2 Variational problems in geometry 3 Hamiltonian systems and related topics

Topological Nonlinear Analysis Michele Matzeu, Alfonso Vignoli, 2012-12-06 Topological tools in Nonlinear Analysis had a tremendous development during the last few decades The three main streams of research in this field Topological Degree Singularity Theory and Variational Methods have lately become impetuous rivers of scientific investigation The process is still going on and the achievements in this area are spectacular A most promising and rapidly developing field of research is the study of the role that symmetries play in nonlinear problems Symmetries appear in a quite natural way in many problems in physics and in differential or symplectic geometry such as closed orbits for autonomous Hamiltonian systems configurations of symmetric elastic plates under pressure Hopf Bifurcation Taylor vortices convective motions of fluids oscillations of chemical reactions etc Some of these problems have been tackled recently by different techniques using equivariant versions of Degree Singularity and Variations The main purpose of the present volume is to give a survey of some of the most significant achievements obtained by topological methods in Nonlinear Analysis during the last two three decades The survey articles presented here reflect the personal taste and points of view of the authors all of them well known and distinguished specialists in their own fields on the subject matter A common feature of these papers is that of starting with an historical introductory background of the different disciplines under consideration and climbing up to the heights of the most recent results

Seminar on Dynamical Systems Lazutkin, Kuksin, Pöschel, 2013-06-29 The Dynamical Systems Semester took place at the Euler International Mathematical Institute in St Petersburg Russia in the autumn of 1991 There were two workshops October 14 25 and November 18 29 with more than 60 participants giving 70 talks The titles of all talks are given at the end of this volume Here we included 22 papers prepared by the authors especially for this volume while the material of the other talks are published elsewhere The semester was sponsored by the Soviet Academy of Sciences and UN ESCO Since the new building of the Euler Institute was not ready at that moment the sessions were held in the old building of the Steklov Mathematical Institute in the very center of St Petersburg Members of the staff of the Euler Institute were doing their best to organize properly the normal processing of the conference not a simple task at that time because of the complications in the political and economical life in Russia just between the coup d'etat in August and the dismantling of the Soviet Union in December We are thankful to all of them

Nonlinear Analysis And Microlocal Analysis - Proceedings Of The International Conference At The Nankai Institute Of Mathematics Kung-ching Chang, Tatsien Li, Yu-min Huang, 1992-10-09 These proceedings contain recent developments on the following important topics variational problems fully nonlinear elliptic equations PDE from differential geometry hamiltonian systems nonlinear evolution equations and nonlinear microlocal analysis Included are many interesting survey papers with the latest research materials

Nonlinear Functional Analysis P. S. Milojevic, 1989-09-28 This book is based

on the lectures presented at the Special Session on Nonlinear Functional Analysis of the American Mathematical Society Regional Meeting held at New Jersey Institute of Technology It explores global invertibility and finite solvability of nonlinear differential equations

Hamiltonian Systems with Three or More Degrees of Freedom Carles Simó, 2012-12-06 A survey of current knowledge about Hamiltonian systems with three or more degrees of freedom and related topics The Hamiltonian systems appearing in most of the applications are non integrable Hence methods to prove non integrability results are presented and the different meaning attributed to non integrability are discussed For systems near an integrable one it can be shown that under suitable conditions some parts of the integrable structure most of the invariant tori survive Many of the papers discuss near integrable systems From a topological point of view some singularities must appear in different problems either caustics geodesics moving wavefronts etc This is also related to singularities in the projections of invariant objects and can be used as a signature of these objects Hyperbolic dynamics appear as a source on unpredictable behaviour and several mechanisms of hyperbolicity are presented The destruction of tori leads to Aubrey Mather objects and this is touched on for a related class of systems Examples without periodic orbits are constructed against a classical conjecture Other topics concern higher dimensional systems either finite networks and localised vibrations on them or infinite like the quasiperiodic Schrödinger operator or nonlinear hyperbolic PDE displaying quasiperiodic solutions Most of the applications presented concern celestial mechanics problems like the asteroid problem the design of spacecraft orbits and methods to compute periodic solutions

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