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Normal Forms and Homoclinic Chaos William F. Langford, Wayne Nagata, 1995-01-01 This volume presents new research on normal forms symmetry homoclinic cycles and chaos from the Workshop on Normal Forms and Homoclinic Chaos held during The Fields Institute Program Year on Dynamical Systems and Bifurcation Theory in November 1992 in Waterloo Canada The workshop bridged the local and global analysis of dynamical systems with emphasis on normal forms and the recently discovered homoclinic cycles which may arise in normal forms Specific topics covered in this volume include normal forms for dissipative conservative and reversible vector fields and for symplectic maps the effects of symmetry on normal forms the persistence of homoclinic cycles symmetry breaking both spontaneous and induced mode interactions resonances intermittency numerical computation of orbits in phase space applications to flow induced vibrations and to mechanical and structural systems general methods for calculation of normal forms and chaotic dynamics arising from normal forms Of the 32 presentations given at this workshop 14 of them are represented by papers in this volume Normal Forms and Homoclinic Chaos William F. Langford, 1995 This volume presents new research on normal forms symmetry homoclinic cycles and chaos from the Workshop on Normal Forms and Homoclinic Chaos held during The Fields Institute Program Year on Dynamical Systems and Bifurcation Theory in November 1992 in Waterloo Canada The workshop bridged the local and global analysis of dynamical systems with emphasis on normal forms and the recently discovered homoclinic cycles which may arise in normal forms The Symmetry Perspective Martin Golubitsky, Ian Stewart, 2012-12-06 The framework of symmetry provides an important route between the abstract theory and experimental observations. The book applies symmetry methods to dynamical systems focusing on bifurcation and chaos theory Its exposition is organized around a wide variety of relevant applications From the reviews The rich collection of examples makes the book extremely useful for motivation and for spreading the ideas to a large Community MATHEMATICAL REVIEWS Advances in Nonlinear Dynamics: Methods and Applications Anil K. Bajaj, Steven W. Shaw, 2012-12-06 This is the second and final issue of the collection of papers that were contributed by friends and colleagues of Late Professor P R Pat Sethna of the University of Minnesota to commemorate his 70th birthday on May 26 1993 The first set of contributions was published in Nonlinear Dynamics as the last issue no 6 of Vol 4 in 1993 As circumstances would have it Professor Sethna was diagnosed with cancer in the fall of 1992 and after an extended battle with the disease he passed away on November 4 1993 just a few days before the first set of contributed papers appeared in print It is gratifying to report that the organizers of these vi Foreword commemorative issues in Nonlinear Dynamics were able to present to Professor Sethna on the occasion of his 70th birthday complete details of the planned commemorative issues This second set of contributions is dedicated in memoriam to Professor P R Sethna As many of you are well aware Professor Sethna was an active researcher in the field of nonlinear vibrations and dynamics for nearly forty years making many fundamental and significant contributions to both the theoretical and applied aspects of this field

He was also recognized for his outstanding leadership and administrative abilities amply demonstrated through his position as the Head of the Department of Aerospace Engineering and Mechanics at the University of Minnesota for twenty six years Singularity Theory Denis Cheniot, Jean-Paul Brasselet, 2007 The Singularity School and Conference took place 1966 1992 in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory. The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities Singularity Theory: Dedicated To Jean-paul Brasselet On His 60th Birthday - Proceedings Of The 2005 Marseille Singularity School And Conference Jean-paul Brasselet, Denis Cheniot, Nicolas Dutertre, Claudio Murolo, Anne Pichon, David Trotman, 2007-02-08 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory. The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities Momentum Maps and Hamiltonian Reduction Juan-Pablo Ortega, Tudor S. Ratiu, 2013-04-17 The use of the symmetries of a physical system in the study of its dynamics has a long history that goes back to the founders of classical mechanics Symmetry based tech niques are often implemented by using the integrals 01 motion that one can sometimes associate to these symmetries The integrals of motion of a dynamical system are guan tities that are conserved along the flow of that system In classical mechanics symme tries are usually induced by point transformations that is they come exclusively from symmetries of the configuration space the intimate connection between integrals of motion and symmetries was formalized in this context by NOETHER 1918 This idea can be generalized to many symmetries of the entire phase space of a given system by associating to the Lie algebra action encoding the symmetry a function from the phase space to the dual of the Lie algebra This map whose level sets are preserved by the dynamics of any symmetrie system is referred to in modern terms as a momentum map of the symmetry a construction already present in the work of LIE 1890 Its remarkable properties were rediscovered by KOSTANT 1965 and SOURIAU 1966 1969 in the general case and by SMALE 1970 for the lifted action to the co tangent bundle of a configuration space For the his tory of the momentum map we refer to WEINSTEIN 1983b and MARSDEN AND RATIU 1999 11 2 Bifurcations in Hamiltonian Systems Henk Broer, Igor Hoveijn, Gerton Lunter, Gert Vegter, 2003-01-01 The authors consider applications of singularity theory and computer algebra to bifurcations of Hamiltonian dynamical systems They restrict themselves to the case were the following simplification is possible Near the equilibrium or quasi periodic solution under consideration the

linear part allows approximation by a normalized Hamiltonian system with a torus symmetry It is assumed that reduction by this symmetry leads to a system with one degree of freedom The volume focuses on two such reduction methods the planar reduction or polar coordinates method and the reduction by the energy momentum mapping The one degree of freedom system then is tackled by singularity theory where computer algebra in particular Gr bner basis techniques are applied The readership addressed consists of advanced graduate students and researchers in dynamical systems **Bifurcation and Symmetry** Pascal Chossat, 2012-12-06 This book collects contributions to the conference Dynamics Bifurcation and Symmetry new trends and new tools which was held at the Institut d Etudes Sci entifiques de Cargese France September 3 9 1993 The first aim of this conference was to gather and summarize the work of the European Bifurcation Theory Group after two years of existence the EBTG links european laboratories in five countries via an EC grant Thanks to a NATO ARW grant the conference developed into an international meeting on bifurcation theory and dynamical systems with the partic ipation of leading specialists not only from Europe but also from overseas countries Canada USA South America It was a great satisfaction to notice the active and quite enthusiastic participation of many young scientists This is reflected in the present book for which many contributors are PhD students or post doc researchers Although several big themes bifurcation with symmetry low dimensional dynam ics dynamics in EDP s applications are present in these proceedings we have divided the book into corresponding parts In fact these themes overlap in most contributions which seems to reflect a general tendancy in nonlinear science I am very pleased to thank for their support the NATO International Exchange Scientific Program as well as the EEC Science Program which made possible the suc cess of this conference Theory and Experiment Heading for New Physics Dario Bambusi, Giuseppe Gaeta, Mariano Cadoni, 2001 The third conference on Symmetry and Perturbation Theory SPT2001 was attended by over 50 mathematicians physicists and chemists The proceedings present the advancement of research in this field more precisely in the different fields at whose crossroads symmetry and perturbation theory sit

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