

G. HALLER

***Chaos
Near
Resonance***



Chaos Near Resonance Applied Mathematical Sciences

**Dario Bambusi, Mariano
Cadoni, Giuseppe Gaeta**



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Chaos Near Resonance G. Haller, 2012-12-06 Resonances are ubiquitous in dynamical systems with many degrees of freedom. They have the basic effect of introducing slow-fast behavior in an evolutionary system which coupled with instabilities can result in highly irregular behavior. This book gives a unified treatment of resonant problems with special emphasis on the recently discovered phenomenon of homoclinic jumping. After a survey of the necessary background, a general finite-dimensional theory of homoclinic jumping is developed and illustrated with examples. The main mechanism of chaos near resonances is discussed in both the dissipative and the Hamiltonian context. Previously unpublished new results on universal homoclinic bifurcations near resonances as well as on multi-pulse Silnikov manifolds are described. The results are applied to a variety of different problems which include applications from beam oscillations, surface wave dynamics, nonlinear optics, atmospheric science and fluid mechanics. The theory is further used to study resonances in Hamiltonian systems with applications to molecular dynamics and rigid body motion. The final chapter contains an infinite-dimensional extension of the finite-dimensional theory with application to the perturbed nonlinear Schrödinger equation and coupled NLS equations.

Chaotic Dynamics and Transport in Classical and Quantum Systems Pierre Collet, M. Courbage, S. Métens, A. Neishtadt, G. Zaslavsky, 2005-07-28 From the 18th to the 30th August 2003 a NATO Advanced Study Institute ASI was held in Cargèse, Corsica, France. Cargèse is a nice small village situated by the Mediterranean Sea and the Institut d'Études Scientifiques de Cargèse provides a traditional place to organize Theoretical Physics Summer Schools and Workshops in a closed and well-equipped place. The ASI was an International Summer School on Chaotic Dynamics and Transport in Classical and Quantum Systems. The main goal of the school was to develop the mutual interaction between Physics and Mathematics concerning statistical properties of classical and quantum dynamical systems. Various experimental and numerical observations have shown new phenomena of chaotic and anomalous transport, fractal structures, chaos in physics accelerators and in cooled atoms, inside atom optics billiards, space-time chaos, fluctuations far from equilibrium, quantum decoherence, etc. New theoretical methods have been developed in order to modelize and to understand these phenomena: volume-preserving and ergodic dynamical systems, non-equilibrium statistical dynamics, fractional kinetics, coupled maps, space-time entropy, quantum dissipative processes, etc. The school gathered a team of specialists from several horizons lecturing and discussing on the achievements, perspectives and open problems, both fundamental and applied.

Handbook of Dynamical Systems H. Broer, F. Takens, B. Hasselblatt, 2010-11-10 In this volume the authors present a collection of surveys on various aspects of the theory of bifurcations of differentiable dynamical systems and related topics. By selecting these subjects they focus on those developments from which research will be active in the coming years. The surveys are intended to educate the reader on the recent literature on the following subjects: transversality and generic properties like the various forms of the so-called Kupka-Smale theorem, the Closing Lemma and generic local bifurcations of functions, so-called catastrophe theory and

generic local bifurcations in 1 parameter families of dynamical systems and notions of structural stability and moduli Covers recent literature on various topics related to the theory of bifurcations of differentiable dynamical systems Highlights developments that are the foundation for future research in this field Provides material in the form of surveys which are important tools for introducing the bifurcations of differentiable dynamical systems **Symmetry And Perturbation**

Theory (Spt 2001), Proceedings Of The International Conference Dario Bambusi, Mariano Cadoni, Giuseppe

Gaeta, 2001-10-19 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 **Nonlinear and Parametric Phenomena**

Vladimir Damgov, 2004 O Canada was first heard in 1880 but it was not until 100 years later that it became Canada's official national anthem In this the first illustrated edition of O Canada acclaimed Canadian artist Ted Harrison takes us on a spectacular journey across Canada from east to western sea Through his joyous eye Canada is revealed as a land of singular beauty Multiple-Time-Scale Dynamical Systems Christopher K.R.T. Jones, Alexander I. Khibnik, 2012-12-06 Systems with

sub processes evolving on many different time scales are ubiquitous in applications chemical reactions electro optical and neuro biological systems to name just a few This volume contains papers that expose the state of the art in mathematical techniques for analyzing such systems Recently developed geometric ideas are highlighted in this work that includes a theory of relaxation oscillation phenomena in higher dimensional phase spaces Subtle exponentially small effects result from singular perturbations implicit in certain multiple time scale systems Their role in the slow motion of fronts bifurcations and jumping between invariant tori are all explored here Neurobiology has played a particularly stimulating role in the development of these techniques and one paper is directed specifically at applying geometric singular perturbation theory to reveal the synchrony in networks of neural oscillators **Configurational Forces as Basic Concepts of Continuum**

Physics Morton E. Gurtin, 2008-01-20 For the last decade the author has been working to extend continuum mechanics to treat moving boundaries in materials focusing in particular on problems of metallurgy This monograph presents a rational treatment of the notion of configurational forces it is an effort to promote a new viewpoint Included is a presentation of configurational forces within a classical context and a discussion of their use in areas as diverse as phase transitions and fracture The work should be of interest to materials scientists mechanics and mathematicians 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 **The Nonlinear Schrödinger Equation** Catherine Sulem, Pierre-Louis Sulem, 2007-06-30 Filling the gap

between the mathematical literature and applications to domains the authors have chosen to address the problem of wave

collapse by several methods ranging from rigorous mathematical analysis to formal asymptotic expansions and numerical simulations Applied Mechanics Reviews ,1988

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