



Interdisciplinary
Applied Mathematics

Stephen Wiggins

Chaotic Transport in Dynamical Systems



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Chaotic Transport In Dynamical Systems

Interdisciplinary Applied Mathematics V 2

Robert E. Wyatt



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Chaotic Transport in Dynamical Systems Stephen Wiggins, 2013-04-09 Provides a new and more realistic framework for describing the dynamics of non linear systems A number of issues arising in applied dynamical systems from the viewpoint of problems of phase space transport are raised in this monograph Illustrating phase space transport problems arising in a variety of applications that can be modeled as time periodic perturbations of planar Hamiltonian systems the book begins with the study of transport in the associated two dimensional Poincar Map This serves as a starting point for the further motivation of the transport issues through the development of ideas in a non perturbative framework with generalizations to higher dimensions as well as more general time dependence A timely and important contribution to those concerned with the applications of mathematics

Applications of Chaos and Nonlinear Dynamics in Science and Engineering - Vol. 2

Santo Banerjee, Lamberto Rondoni, Mala Mitra, 2012-07-17 Chaos and nonlinear dynamics initially developed as a new emergent field with its foundation in physics and applied mathematics The highly generic interdisciplinary quality of the insights gained in the last few decades has spawned myriad applications in almost all branches of science and technology and even well beyond Wherever the quantitative modeling and analysis of complex nonlinear phenomena are required chaos theory and its methods can play a key role This second volume concentrates on reviewing further relevant contemporary applications of chaotic nonlinear systems as they apply to the various cutting edge branches of engineering This encompasses but is not limited to topics such as the spread of epidemics electronic circuits chaos control in mechanical devices secure communication and digital watermarking Featuring contributions from active and leading research groups this collection is ideal both as a reference work and as a recipe book full of tried and tested successful engineering applications

Quantum Dynamics with Trajectories Robert E. Wyatt, 2006-05-28 Remarkable progress has recently been made in the application of quantum trajectories as the computational tool for solving quantum mechanical problems This is the first book to present these developments in the broader context of the hydrodynamical formulation of quantum dynamics In addition to a thorough discussion of the quantum trajectory equations of motion there is considerable material that deals with phase space dynamics adaptive moving grids electronic energy transfer and trajectories for stationary states On the pedagogical side a number of sections of this book will be accessible to students who have had an introductory quantum mechanics course There is also considerable material for advanced researchers and chapters in the book cover both methodology and applications The book will be useful to students and researchers in physics chemistry applied math and computational dynamics

Nonlinear Dynamics in Physiology and Medicine Anne Beuter, Leon Glass, Michael C.

Mackey, Michele S. Titcombe, 2003-09-12 Introduces concepts from nonlinear dynamics using an almost exclusively biological setting for motivation and includes examples of how these concepts are used in experimental investigations of biological and physiological systems One novel feature of the book is the inclusion of classroom tested computer exercises This book will

appeal to students and researchers working in the natural and physical sciences wanting to learn about physiological systems from a mathematical perspective Chaos in Classical and Quantum Mechanics Martin C. Gutzwiller, 2013-11-27 Describes the chaos apparent in simple mechanical systems with the goal of elucidating the connections between classical and quantum mechanics It develops the relevant ideas of the last two decades via geometric intuition rather than algebraic manipulation The historical and cultural background against which these scientific developments have occurred is depicted and realistic examples are discussed in detail This book enables entry level graduate students to tackle fresh problems in this rich field

Lagrangian Oceanography Sergey V. Prants, Michael Yu. Uleysky, Maxim V. Budyansky, 2017-03-27 This book uses the Lagrangian approach especially useful and convenient for studying large scale transport and mixing in the ocean to present a detailed view of ocean circulation This approach focuses on simulations and on monitoring the trajectories of fluid particles which are governed by advection equations The first chapter of the book is devoted to dynamical systems theory methods which provide the framework methodology and key concepts for the Lagrangian approach The book then moves on to an analysis of chaotic mixing and cross stream transport in idealized models of oceanic meandering currents like the Gulfstream in the Atlantic the Kuroshio in the Pacific and Antarctic Circumpolar Current after which the current state of physical oceanography is reviewed The latter half of the book applies the techniques and methods already described in order to study eddies currents fronts and large scale mixing and transport in the Far Eastern seas and the north western part of the Pacific Ocean Finally the book concludes with a discussion of Lagrangian simulation and monitoring of water contamination after the Fukushima disaster of 2011 The propagation of Fukushima derived radionuclides surface transport across the Kuroshio Extension current and the role of mesoscale eddies in the transport of Fukushima derived cesium isotopes in the ocean are examined and a comparison of simulation results with actual measurements are presented Written by some of the world leaders in the application of Lagrangian methods in oceanography this title will be of benefit to the oceanographic community by presenting the necessary background of the Lagrangian approach in an accessible manner **Fundamentals**

of Two-Fluid Dynamics Daniel D. Joseph, Yuriko Y. Renardy, 2013-12-01 Two fluid dynamics is a challenging subject rich in physics and practical applications Many of the most interesting problems are tied to the loss of stability which is realized in preferential positioning and shaping of the interface so that interfacial stability is a major player in this drama Typically solutions of equations governing the dynamics of two fluids are not uniquely determined by the boundary data and different configurations of flow are compatible with the same data This is one reason why stability studies are important we need to know which of the possible solutions are stable to predict what might be observed When we started our studies in the early 1980 s it was not at all evident that stability theory could actually work in the hostile environment of pervasive nonuniqueness We were pleasantly surprised even astounded by the extent to which it does work There are many simple solutions called basic flows which are never stable but we may always compute growth rates and determine the wavelength

and frequency of the unstable mode which grows the fastest This procedure appears to work well even in deeply nonlinear regimes where linear theory is not strictly valid just as Lord Rayleigh showed long ago in his calculation of the size of drops resulting from capillary induced pinch off of an inviscid jet

Nonlinear Systems Shankar Sastry, 2013-04-18 There has been a great deal of excitement in the last ten years over the emergence of new mathematical techniques for the analysis and control of nonlinear systems Witness the emergence of a set of simplified tools for the analysis of bifurcations chaos and other complicated dynamical behavior and the development of a comprehensive theory of geometric nonlinear control Coupled with this set of analytic advances has been the vast increase in computational power available for both the simulation and visualization of nonlinear systems as well as for the implementation in real time of sophisticated real time nonlinear control laws Thus technological advances have bolstered the impact of analytic advances and produced a tremendous variety of new problems and applications that are nonlinear in an essential way Nonlinear control laws have been implemented for sophisticated flight control systems on board helicopters and vertical take off and landing aircraft adaptive nonlinear control laws have been implemented for robot manipulators operating either singly or in cooperation on a multi fingered robot hand adaptive control laws have been implemented for jet engines and automotive fuel injection systems as well as for automated highway systems and air traffic management systems to mention a few examples Bifurcation theory has been used to explain and understand the onset of flutter in the dynamics of aircraft wing structures the onset of oscillations in nonlinear circuits surge and stall in aircraft engines voltage collapse in a power transmission network

Encyclopedia of Nonlinear Science Alwyn Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others

Homogenization and Porous Media Ulrich Hornung, 2012-12-06 This book offers a systematic rigorous treatment of upscaling procedures related to physical modeling for porous media on micro meso and macro scales including detailed studies of micro structure systems and computational results for dual porosity models

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