

A.S. Mikhailov A.Yu. Loskutov

Foundations of Synergetics II

Complex Patterns



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Foundations Of Synergetics Ii Complex Patterns

Crispin W. Gardiner



Foundations Of Synergetics Ii Complex Patterns:

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tions Quite generally the Fokker Planck equation plays an important role in problems which involve noise e g in electrical circuits For these reasons I am sure that this book will find a broad audience It provides the reader with a sound basis for the study of the Fokker Planck equation and gives an excellent survey of the methods of its solution The author of this book Hannes Risken has made substantial contributions to the development and application of such methods e g to laser physics diffusion in periodic potentials and other problems Therefore this book is written by an experienced practitioner who has had in mind explicit applications to important problems in the natural sciences and electrical engineering

Interfacial Wave Theory of Pattern Formation Jian-Jun Xu,2012-12-06 For the last several years the study of interfacial instability and pattern formation phenomena has preoccupied many researchers in the broad area of nonlinear science These phenomena occur in a variety of dynamical systems far from equilibrium In many practically very important physical systems some fascinating patterns are always displayed at the interface between solid and liquid or between two liquids Two prototypes of these phenomena are dendrite growth in solidification and viscous fingering in a Hele Shaw cell These two phenomena occur in completely different scientific fields but both are described by similar nonlinear free boundary problems of partial differential equation systems the boundary conditions on the interface for both cases contain a curvature operator involving the surface tension which is nonlinear Moreover both cases raise the same challenging theoretical issues interfacial instability mechanisms and pattern selection and it is now found that these issues can be solved by the same analytical approach Thus these two phenomena are regarded as special examples of a class of nonlinear pattern formation phenomena in nature and they are the prominent topics of the new interdisciplinary field of nonlinear science This research monograph is based on a series of lectures I have given at McGill University Canada 1993 1994 Northwestern Poly technical Institute China 1994 Aachen University Germany 1994 and the CRM summer school at Banff Alberta Canada 1995

Asymptotic Methods for the Fokker-Planck Equation and the Exit Problem in Applications Johan Grasman,Onno A., van Herwaarden,2013-04-17 Asymptotic methods are of great importance for practical applications especially in dealing with boundary value problems for small stochastic perturbations This book deals with nonlinear dynamical systems perturbed by noise It addresses problems in which noise leads to qualitative changes escape from the attraction domain or extinction in population dynamics The most likely exit point and expected escape time are determined with singular perturbation methods for the corresponding Fokker Planck equation The authors indicate how their techniques relate to the It calculus applied to the Langevin equation The book will be useful to researchers and graduate students

Asymptotic Approaches in Nonlinear Dynamics Jan Awrejcewicz,Igor V. Andrianov,Leonid I. Manevitch,2012-12-06 How well is Nature simulated by the varied asymptotic models that imaginative scientists have invented B Birkhoff 52J This book deals with asymptotic methods in nonlinear dynamics For the first time a detailed and systematic treatment of new asymptotic methods in combination with the Pade approximant method is presented Most of the basic results included in this manuscript have not

been treated but just mentioned in the literature Providing a state of the art review of asymptotic applications this book will prove useful as an introduction to the field for novices as well a reference for specialists Asymptotic methods of solving mechanical and physical problems have been developed by many authors For example we can refer to the excellent courses by A Nayfeh 119 122 M Van Dyke 154 E J Hinch 94J and many others 59 66 95 109 126 155 163 50d 59dJ The main features of the monograph presented are 1 it is devoted to the basic principles of asymptotics and its applications and 2 it deals with both traditional approaches such as regular and singular perturbations averaging and homogenization perturbations of the domain and boundary shape and less widely used new approaches such as one and two point Padé approximants the distributional approach and the method of boundary perturbations

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Alexander S. Mikhailov, 1990

Nonlinear Nonequilibrium Thermodynamics II Rouslan L. Stratonovich, 1994-05-16 This two volume work gives the first detailed coherent treatment of a relatively young branch of statistical physics nonlinear nonequilibrium and fluctuational dissipative thermodynamics This area of research has taken shape rather recently its development began in 1959 The earlier theory linear nonequilibrium thermodynamics is in principle a simple special case of the new theory Despite the fact that the title of the book includes the word nonlinear it also covers the results of linear nonequilibrium thermodynamics The presentation of the linear and nonlinear theories is done within a common theoretical framework that is not subject to the linearity condition The author hopes that the reader will perceive the intrinsic unity of this discipline the uniformity and generality of its constituent parts This theory has a wide variety of applications in various domains of physics and physical chemistry enabling one to calculate thermal fluctuations in various nonlinear systems The book is divided into two volumes Fluctuation dissipation theorems or relations of various types linear quadratic and cubic classical and quantum are considered in the first volume There one encounters the Markov and non Markov fluctuation dissipation theorems FDTs theorems of the first second and third kinds Nonlinear FDTs are less known than their linear counterparts The present second volume of the book deals with the advanced theory It consists of four chapters The connection and interdependence of the material in the various chapters of both volumes are illustrated in the accompanying diagram

Quantum Signatures of Chaos Fritz Haake, 1991 This textbook provides an excellent introduction to a new and rapidly developing field of research The topics treated include a detailed exploration of the quantum aspects of nonlinear dynamics quantum criteria to distinguish regular and irregular motion antiunitary symmetries generalized time reversal and a thorough account of the quantum mechanics of dissipative systems Each chapter is accompanied by a selection of problems which will help the student to test and deepen his/her understanding and to acquire an active command of the methods The second edition is significantly expanded Of the considerable theoretical progress lately achieved the book focusses on the deeper statistical exploitation of level dynamics improved control of semiclassical periodic orbit expansions and superanalytic techniques for dealing with various types of random matrices

Quantum Noise Crispin W. Gardiner, 1991

Self-organization in Optical Systems and Applications in Information Technology Mikhail Alekseevich Vorontsov, Walter Blaine Miller, 1995 Contrary to monographs on non linear optics this book concentrates on problems of self organization in various important contexts The reader learns how patterns in non linear optical systems are created and what theoretical methods can be applied to describe them Next various aspects of pattern formation such as associative memory information processing spatio temporal instability photo refraction and so on are treated The book addresses graduate students and researchers in physics and optical engineering

Nonlinear Coherent Structures in Physics and Biology M. Remoissenet, 1991 Nature provides many examples of coherent nonlinear structures and waves and these have been observed and studied in various fields ranging from fluids and plasmas through solid state physics to chemistry and biology These proceedings reflect the remarkable process in understanding and modeling nonlinear phenomena in various systems that has recently been made Experimental numerical and theoretical activities interact in various studies that are presented according to the following classification magnetic and optical systems biosystems and molecular systems lattice excitations and localized modes two dimensional structures theoretical physics and mathematical methods The book addresses researchers and graduate students from biology engineering mathematics and physics

Journal of Physics A, 1991 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory

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