Instabilities and Chaos in Quantum Optics II

Edited by

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Instabilities And Chaos In Quantum Optics Ii

F Tito Arecchi,Jean-marc Ginoux,Riccardo Meucci

Instabilities And Chaos In Quantum Optics Ii:

   Instabilities and Chaos in Quantum Optics II N.B. Abraham,F.T. Arecchi,L.A. Lugiato,1988-09-01 This volume contains tutorial papers from the lectures and seminars presented at the NATO Advanced Study Institute on Instabilities and Chaos in Quantum Optics held at the Il Ciocco Conference Center Castelvecchio Pascoli Lucca Italy June 28 July 7 1987 The title of the volume is designated Instabilities and Chaos in Quantum Optics II because of the nearly coincident publication of a collection of articles on research in this field edited by F T Arecchi and R G Harrison Instabilities and Chaos in Quantum Optics Springer Berlin 1987 1 That volume provides more detailed information about some of these topics Together they will serve as a comprehensive and tutorial pair of companion volumes This school was directed by Prof Massimo Inguscio of the Department of Physics University of Naples Naples Italy to whom we express our gratitude on behalf of all lecturers and students The Scientific Advisory Committee consisted of N B Abraham of Bryn Mawr College F T Arecchi of the National Institute of Optics in Florence and the University of Florence and L A Lugiato of the Politechnic Institute of Torino The school continues the long tradition of Europhysics Summer Schools in Quantum Electronics which have provided instruction and training for young researchers and advanced students working in this field for almost twenty years   **Instabilities and Chaos in Quantum Optics II** N.B. Abraham,F.T. Arecchi,L.A. Lugiato,2013-06-19 This volume contains tutorial papers from the lectures and seminars presented at the NATO Advanced Study Institute on Instabilities and Chaos in Quantum Optics held at the Il Ciocco Conference Center Castelvecchio Pascoli Lucca Italy June 28 July 7 1987 The title of the volume is designated Instabilities and Chaos in Quantum Optics II because of the nearly coincident publication of a collection of articles on research in this field edited by F T Arecchi and R G Harrison Instabilities and Chaos in Quantum Optics Springer Berlin 1987 1 That volume provides more detailed information about some of these topics Together they will serve as a comprehensive and tutorial pair of companion volumes This school was directed by Prof Massimo Inguscio of the Department of Physics University of Naples Naples Italy to whom we express our gratitude on behalf of all lecturers and students The Scientific Advisory Committee consisted of N B Abraham of Bryn Mawr College F T Arecchi of the National Institute of Optics in Florence and the University of Florence and L A Lugiato of the Politechnic Institute of Torino The school continues the long tradition of Europhysics Summer Schools in Quantum Electronics which have provided instruction and training for young researchers and advanced students working in this field for almost twenty years   *Lasers And Quantum Optics - Proceedings Of The International School* Lorenzo M Narducci,E J Quel,J R Tredicce,1990-04-01 This book is based on a series of lectures given at a Summer School held in Mar del Plata Argentina during the Winter Southamerican of 1988 A number of world renowned researchers have produced comprehensive surveys on topics that range from the basic principles of laser physics and laser dynamics quantum optics quantum aspects of the interaction of a few atoms and the electromagnetic field and other fast growing areas of research This book will be useful for graduate students and young researchers who wish to

gain an introduction to the field of modern optics   Proceedings Of The 1st Experimental Chaos Conference Sandeep Vohra,Mark L Spano,Michael F Shlesinger,Louis M Pecora,William L Ditto,1992-04-24 This is the first conference dedicated to the understanding of the experimental aspects of chaotic behavior in several fields and to addressing the emerging areas of data analysis and applications of nonlinear phenomena Areas covered are data analysis and signal processing techniques optics applications of chaotic behavior magnetism nonlinear electronic circuits spatiotemporal chaos semiconductors and physiology Each paper shows real data and what can be done with it Emphasis is on the manifestation of chaos in real systems measuring it analyzing it and using it in new and unique applications   **Instabilities and Chaos in Quantum Optics** F.Tito Arecchi,Robert G. Harrison,2012-12-06 Of the variety of nonlinear dynamical systems that exhibit deterministic chaos optical systems both lasers and passive devices provide nearly ideal systems for quantitative investigation due to their simplicity both in construction and in the mathematics that describes them In view of their growing technical application the understanding control and possible exploitation of sources of instability in these systems has considerable practical importance The aim of this volume is to provide a comprehensive coverage of the current understanding of optical instabilities through a series of reviews by leading researchers in the field The book comprises nine chapters five on active laser systems and four on passive optically bistable systems Instabilities and chaos in single and multi mode lasers with homogeneously and broadened gain media are presented and the influence of an injected signal loss modulation and also feedback of laser output on this behaviour is treated Both electrically excited and optically pumped gas lasers are considered and an analysis of dynamical instabilities in the emission from free electron lasers are presented Instabilities in passive optically bistable systems include a detailed analysis of the global bifurcations and chaos in which transverse effects are accounted for Experimental verification of degenerative pulsations and chaos in intrinsic bistable systems is described for various optical feedback systems in which atomic and molecular gases and semiconductors are used as the nonlinear media Results for a hybrid bistable optical system are significant in providing an important test of current understanding of the dynamical behaviour of passive bistable systems   *Laser Physics And Laser Instabilities* Neal B Abraham,Lorenzo M Narducci,1988-09-01 This book is an edited version of lectures given by the authors at the 1985 Jilin University Summer School on Laser Physics The School was held at Jilin University in Changchun Peoples Republic of China   Dynamics Of Non-linear Optical Systems - Proceedings Of The International Workshop L Pesquera,F J Bermejo,1989-04-01 The meeting will provide an up to date state of the art exposition of results and techniques concerning theoretical and experimental studies of optical devices showing strong non linear behaviour Special attention will be paid towards the production of intense squeezed and sub Poissionian light formation of spatial patterns in laser systems atomic dynamics in intense laser fields and the characterization of instabilities and chaotic dynamics in optical media   **Measures of Complexity and Chaos** Neal B. Abraham,Alfonso M. Albano,Anthony Passamante,Paul E. Rapp,2013-03-09 This volume serves as a general

introduction to the state of the art of quantitatively characterizing chaotic and turbulent behavior It is the outgrowth of an international workshop on Quantitative Measures of Dynamical Complexity and Chaos held at Bryn Mawr College June 22 24 1989 The workshop was co sponsored by the Naval Air Development Center in Warminster PA and by the NATO Scientific Affairs Programme through its special program on Chaos and Complexity Meetings on this subject have occurred regularly since the NATO workshop held in June 1983 at Haverford College only two kilometers distant from the site of this latest in the series At that first meeting organized by J Gollub and H Swinney quantitative tests for nonlinear dynamics and chaotic behavior were debated and promoted 1 In the six years since the methods for dimension entropy and Lyapunov exponent calculations have been applied in many disciplines and the procedures have been refined Since then it has been necessary to demonstrate quantitatively that a signal is chaotic rather than it being acceptable to observe that it looks chaotic Other related meetings have included the Pecos River Ranch meeting in September 1985 of G Mayer Kress 2 and the reflective and forward looking gathering near Jerusalem organized by M Shapiro and I Procaccia in December 1986 3 This meeting was proof that interest in measuring chaotic and turbulent signals is widespread **Contemporary Nonlinear Optics** Robert Boyd,2012-12-02 Contemporary Nonlinear Optics discusses the different activities in the field of nonlinear optics The book is comprised of 10 chapters Chapter 1 presents a description of the field of nonlinear guided wave optics Chapter 2 surveys a new branch of nonlinear optics under the heading optical solitons Chapter 3 reviews recent progress in the field of optical phase conjugation Chapter 4 discusses ultrafast nonlinear optics a field that is growing rapidly with the ability of generating and controlling femtosecond optical pulses Chapter 5 examines a branch of nonlinear optics that may be termed nonlinear quantum optics Chapter 6 reviews the new field of photorefractive adaptive neural networks Chapter 7 presents a discussion of recent successes in the development of nonlinear optical media based on organic materials Chapter 8 reviews the field of nonlinear optics in quantum confined structures Chapter 9 reviews the field of nonlinear laser spectroscopy with emphasis on advances made during the 1980s Finally Chapter 10 reviews the field of nonlinear optical dynamics by considering nonlinear optical systems that exhibit temporal spatial or spatio temporal instabilities This book is a valuable source for physicists and other scientists interested in optical systems and neural networks **Advanced Electromagnetism: Foundations: Theory And Applications** Terence William Barrett,Dale M Grimes,1995-11-16 Advanced Electromagnetism Foundations Theory and Applications treats what is conventionally called electromagnetism or Maxwell s theory within the context of gauge theory or Yang Mills theory A major theme of this book is that fields are not stand alone entities but are defined by their boundary conditions The book has practical relevance to efficient antenna design the understanding of forces and stresses in high energy pulses ring laser gyros high speed computer logic elements efficient transfer of power parametric conversion and many other devices and systems Conventional electromagnetism is shown to be an underdeveloped rather than a completely developed field of endeavor with major challenges in development still to be met **Nonlinear Dynamics and Complexity**

Carla M.A. Pinto,2022-10-21 This book collects a range of contributions on nonlinear dynamics and complexity providing a systematic summary of recent developments applications and overall advances in nonlinearity chaos and complexity It presents both theories and techniques in nonlinear systems and complexity and serves as a basis for more research on synchronization and complexity in nonlinear science as well as a mechanism to fast scatter the new knowledge to scientists engineers and students in the corresponding fields Written by world renown experts from across the globe the collection is ideal for researchers practicing engineers and students concerned with machinery and controls manufacturing and controls

Nonlinear Dynamics Of Lasers F Tito Arecchi,Jean-marc Ginoux,Riccardo Meucci,2023-02-06 In the early 1980s the late luminary Tito Arecchi was the first to highlight the existence of chaos in a laser model Since then along with several colleagues he developed many important lines of research in this field such as generalized multistability laser with injected signal laser with delayed feedback and the worldwide accepted classification of lasers of A B and C depending on their typical relaxation rates Later chaos control and synchronization were investigated in lasers and other systems providing innovative schemes Very recently in his last contribution to laser physics the model of the laser with feedback demonstrating its universal features was revisited This book aims to present the research activity of Prof Arecchi and his colleagues in the domain of nonlinear dynamics of lasers since his seminal works of 1982 till the latest Also included is our last contribution on jerk dynamics of laser s minimal universal model and a brief history of the discovery of laser where the reader will discover or rediscover many anecdotes about it *Progress in Optics* ,1988-05-01 This volume is a jubilee issue and contains some specially designed computer generated holograms for this occasion together with a description of how to obtain the holographic effect **Springer Handbook of Atomic, Molecular, and Optical Physics** Gordon W. F. Drake,2023-02-09 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a uniform coverage and style with extensive cross references Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook

Nonlinear Nonequilibrium Thermodynamics II Rouslan L. Stratonovich,2013-11-11 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 de elopment began in 1959 The earlier

theory linear nonequilibrium ther modynamics 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 unjty of this dis cipline 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 nonlinearsystems 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 **Modern Nonlinear Optics, Volume 119, Part 2** Myron W. Evans,2004-08-04 The new edition will provide the sole comprehensive resource available for non linear optics including detailed descriptions of the advances over the last decade from world renowned experts *Principles of Laser Dynamics* Y.I. Khanin,2012-12-02 This monograph summarizes major achievements in laser dynamics over the past three decades The book begins with two introductory Chapters Chapter 1 offers general considerations on quantum oscillators formulates the requirements for the laser key elements and shows how these requirements are met in different laser systems The second Chapter proposes the mathematical models used in semiclassical laser theory discusses the approximations and simplifications in particular cases and specifies the range of applicability of these models In Chapters 3 5 attention is given primarily to the steady states and their stability the laser behavior in the instability domain the characteristics of regular and chaotic pulsations and the nature of their mechanisms Chapter 6 deals with the processes in a laser accompanying the time variance of laser parameters Considerable attention is given to a laser response to weak low frequency modulation of the parameters The problems addressed therein are resonant modulation enhancement transition to the nonlinear regime chaotic response to periodic impact spike like generation due to variation of the cavity geometry and a laser rod temperature drift Laser behavior is subject to qualitative changes if its optical elements exhibit nonlinear properties The action of a saturable absorber which leads to a loss of laser stability and provides passive Q modulation is investigated To a much lesser degree the researchers attention has been attracted by other nonlinear effects such as self focusing e g which may have a strong influence on laser dynamics All of these issues are covered in Chapter 7 The book is intended for researchers engineers graduate and post graduate students majoring in quantum electronics Nonlinear Evolution Equations And Dynamical Systems - Proceedings Of The 8th International Workshop (Needs '92) Vladimir G Makhankov,O K Pashaev,I Puzynin,1993-08-13 NEEDs 92 was held in Dubna Russia in July 1992 This set of

proceedings compiles the lectures and short contributions on the soliton theory and its applications presented during the conference The topics covered included the most recent results on relevant problems of nonlinear evolution systems such as Multidimensional Integrable Systems Geometric and Algebraic Methods Painleve Property Lie Backlund Symmetries Spectral Methods Solitons and Coherent Structures Computational Methods Quantum Field and String Theories Nonlinear Optics and Hydrodynamics Condensed Matter etc The extent of coverage for these important topics makes this book useful informative and insighful for the mathematics and theoretical physics community both the senior researches and those just entering the field   Atti della Fondazione Giorgio Ronchi Fondazione Giorgio Ronchi,   *IUTAM Symposium on Chaotic Dynamics and Control of Systems and Processes in Mechanics* Giuseppe Rega,F. Vestroni,2006-06-22 The interest of the applied mechanics community in chaotic dynamics of engineering systems has exploded in the last fifteen years although research activity on nonlinear dynamical problems in mechanics started well before the end of the Eighties It developed first within the general context of the classical theory of nonlinear oscillations or nonlinear vibrations and of the relevant engineering applications This was an extremely fertile field in terms of formulation of mechanical and mathematical models of development of powerful analytical techniques and of understanding of a number of basic nonlinear phenomena At about the same time meaningful theoretical results highlighting new solution methods and new or complex phenomena in the dynamics of deterministic systems were obtained within dynamical systems theory by means of sophisticated geometrical and computational techniques In recent years careful experimental studies have been made to establish the actual occurrence and observability of the predicted dynamic phenomena as it is vitally needed in all engineering fields Complex dynamics have been shown to characterize the behaviour of a great number of nonlinear mechanical systems ranging from aerospace engineering applications to naval applications mechanical engineering structural engineering robotics and biomechanics and other areas The International Union of Theoretical and Applied Mechanics grasped the importance of such complex phenomena in the Eighties when the first IUTAM Symposium devoted to the general topic of nonlinear and chaotic dynamics in applied mechanics and engineering was held in Stuttgart 1989

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