

NONLINEAR PHENOMENA AND COMPLEX SYSTEMS

ERIC GOLES AND SERVET MARTÍNEZ (EDS.)

*Dynamics of
Complex Interacting
Systems*

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Complex Systems Nonlinear Phenomena And Complex Systems

E. Goles, Servet Martínez



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Nachtergaele, 2012-12-02 This book contains short courses in current topics in nonlinear physics given by distinguished professionals in their fields These include nonlinear fluid dynamics transition to turbulence quantum hall effect cellular automata and neural networks phase transitions These courses are up to date and are aimed at a wide audience in particular to graduate students and researchers in the field of nonlinear physics Fully Chaotic Maps and Broken Time Symmetry

Dean J. Driebe, 2013-04-17 I am very pleased and privileged to write a short foreword for the monograph of Dean Driebe Fully Chaotic Maps and Broken Time Symmetry Despite the technical title this book deals with a problem of fundamental importance To appreciate its meaning we have to go back to the tragic struggle that was initiated by the work of the great theoretical physicist Ludwig Boltzmann in the second half of the 19th century Ludwig Boltzmann tried to emulate in physics what Charles Darwin had done in biology and to formulate an evolutionary approach in which past and future would play different roles Boltzmann's work has led to innumerable controversies as the laws of classical mechanics as well as the laws of quantum mechanics as traditionally formulated imply symmetry between past and future As is well known Albert Einstein often stated that Time is an illusion Indeed as long as dynamics is associated with trajectories satisfying the equations of classical mechanics explaining irreversibility in terms of trajectories appears as Henri Poincaré concluded as a logical error After a long struggle Boltzmann acknowledged his defeat and introduced a probability description in which all microscopic states are supposed to have the same a priori probability Irreversibility would then be due to the imperfection of our

observations associated only with the macroscopic state described by temperature pressure and other similar parameters Irreversibility then appears devoid of any fundamental significance However today this position has become untenable

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Instabilities and Nonequilibrium Structures VI E. Tirapegui,Javier Martínez,Rolando Tiemann,2012-12-06 This book contains two introductory papers on important topics of nonlinear physics The first one by M San Miguel et al refers to the effect of noise in nonequilibrium systems The second by M E Brachet is a modern introduction to turbulence in fluids The material can be very useful for short courses and is presented accordingly The authors have made their texts self contained The volume also contains a selection of the invited seminars given at the Sixth International Workshop on Instabilities and Nonequilibrium Structures Audience This book should be of interest to graduate students and scientists interested in the fascinating problems of nonlinear physics

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discussed the latter in several previous columns

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