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Nota di contenuto	Preface; Conference Committees; CONTENTS; The Semiconductor Steady Boltzmann Equation: A Variational Formulation with an Application to Mobility A.M. Anile, G. Ali, G. Mascali; Generating Multi State Cellular Automata by using Chua's "Universal Neuron" E. Bilotta, G. Di Blasi, S. Giambd, P. Pantano; Isocline Curves and Variational Scalar Field G. Boillat, A . Muracchini; Fokker-Planck Asymptotics and the Ricci Flow M. Carfora; Exact Solutions of a Reaction Diffusion Equation M. Carini, N. Manganaro Some Applications of Linear Response Theory to Media with Mechanical Relaxation Phenomena A . Ciancio, V. Ciancio, F. FarsaciReduction of the Three-Wave Resonant Interaction to the Sixth Painlev6 Equation R. Conte, A.M. Grundland, M. Musette; The D' Alembert-Lagrange Principle for Gradient Theories and Boundary Conditions H. Gouin; A Model for the Evolution of Bioenergy in an Environmental System G. Luuro, R. Monaco, G. Servente; Analysis of the Lorenz System and the

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Sommario/riassunto

This book brings together several contributions from leading experts in the field of nonlinear wave propagation. This field, which during the last three decades has seen important breakthroughs from the theoretical point of view, has recently acquired increased relevance due to advances in the technology of fluids e.g. at microscale or nanoscale and the recognition of crucial applications to the understanding of biological phenomena. Nonlinear wave theory requires the use of disparate approaches, including formal and rigorous asymptotic methods, Lie group theory, energy methods, numerical anal