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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Study of a Model for the Distribution of Wealth -- Periodic Orbits of Planar Integrable Birational Maps -- Discrete-Time Modelling of Sigma-Delta Inspired Systems for MEMS -- Kinetic Exchange Models in Economics and Sociology -- Nonlinear Maps: From the Toulouse Colloquium (1973) to NOMA'13 -- Lebesgue Measure of Recurrent Scrambled Sets -- On the Concept of Integrability for Discrete Dynamical Systems: Investigation of Wandering Points of Some Trace Map -- Discrete Maps and the Problem of Round Trip Time Scale Nonlinear Dynamics in Solid State Lasers -- The Importance of the Strategy in Backward Orbits -- Minimal Cantor Type Sets on Discrete Dynamical Systems -- Piecewise Expanding Maps and Conjugacy Equations -- In Search of H-Theorem for Ulam's Redistribution of Energy Problem -- Random Market Models with an H-Theorem -- Synchronization and Phase Ordering in Globally Coupled Chaotic Maps -- Maximizing a Psychological Uplift in Love Dynamics -- From Weak

Sommario/riassunto

In the field of Dynamical Systems, nonlinear iterative processes play an important role. Nonlinear mappings can be found as immediate models for many systems from different scientific areas, such as engineering, economics, biology, or can also be obtained via numerical methods permitting to solve non-linear differential equations. In both cases, the understanding of specific dynamical behaviors and phenomena is of the greatest interest for scientists. This volume contains papers that were presented at the International Workshop on Nonlinear Maps and their Applications (NOMA 2013) held in Zaragoza, Spain, on September 3-4, 2013. This kind of collaborative effort is of paramount importance in promoting communication among the various groups that work in dynamical systems and networks in their research theoretical studies as well as for applications. This volume is suitable for graduate students as well as researchers in the field.

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