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	Titolo	Chaos, complexity and transport [[electronic resource]] : theory and applications : proceedings of the CCT '07, Marseille, France, 4-8 June 2007 / / edited by Cristel Chandre, Xavier Leoncini, George Zaslavsky
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	Altri autori (Persone)	ChandreCristel ZaslavskyGeorge M LeonciniXavier
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; CONTENTS; THEORY; Out-of-Equilibrium Phase Transitions in Mean-Field Hamiltonian Dynamics P.-H. Chavanis, G. De Ninno, D. Fanelli and S. Ruffo; 1. Introduction; 2. On the emergence of quasi-stationary states: Predictions from the Lynden-Bell theory within the Vlasov picture; 3. Properties of the homogeneous Lynden-Bell distribution; 4. Stability of the Lynden-Bell homogeneous phase; 5. The rectangular water-bag initial condition: phase diagram in the (M, T) plane; 6. The general case: Phase diagram in the (ρ, U) plane; 7. Conclusions; Acknowledgements; References Stochastic Webs in Multidimensions G. M. Zaslavsky and M. Edelman1. Introduction; 2. Kicked Two Coupled Oscillators; 3. Symmetry of the Stochastic Web; 4. More Coupled Oscillators; 5. Conclusion; Acknowledgments; References; Chaotic Geodesics J.-L. Thiffeault and K. Kamhawi; 1. Introduction; 2. Coordinate System; 2.1. Separating the Shallow Direction; 2.2. Substrate Coordinates; 3. Equations of Motion; 3.1. Small-parameter Expansion; 3.2. Solution in Terms of Characteristics; 4. Fluid Particle Trajectories; 5. Lyapunov Exponents and Chaos; 6. Discussion; References A Steady Mixing Flow with No-Slip Boundaries R. S. MacKay1. Introduction; 2. The construction; 3. Mixing; 4. Discussion; Appendix; Acknowledgements; References; Complexity and Entropy in Colliding Particle Systems M. Courbage and S. M. Saberi Fathi; 1. Introduction; 2. Entropy for collision map; 3. Hard disks; 4. Concluding remarks; Appendix A. Collision Map; References; Wave Condensation S. Rica; 1. Introduction; 2. Wave equation; 3. Kinetics Theory and Bose-Einstein condensation; 4. Dynamics before collapse; 5. Kinetics Theory with a condensate; 5.1. Early stage 5.2. Late stage: The appearance of coherence and the Bogoliubov spectra6. Comments and remarks; References; Transport in Deterministic Ratchets: Periodic Orbit Analysis of a Toy Model R. Artuso, L. Cavallasca and G. Cristadoro; 1. Introduction; 2. Parrondo games and their deterministic version; 3. Periodic orbit theory of deterministic Parrondo games; 4. Periodic hopping framework; 5. Conclusions and perspectives; Acknowledgments; References; Separatrix Chaos: New Approach to the Theoretical Treatment S. M. Soskin, R. Mannella and O. M. Yevtushenko; 1. Introduction; 2. Basic ideas 3. Application to the double-separatrix chaos4. Single-separatrix layer: estimates of the largest width; References; Giant Acceleration in Weakly-Perturbed Space-Periodic Hamiltonian Systems M. Yu. Uleysky and D. V. Malcarov; 1. Introduction; References; Local Control of Area-Preserving Maps C. Chandre, M. Vittot and G. Carallo; 1. Introduction; 2. Derivation of the control term; 3. Numerical examples; 3.1. Application to the standard map; 3.2. Application to the tokamak; References; APPLICATIONS; (1) PLASMA & FLUIDS Implications of Topological Complexity and Hamiltonian Chaos in the Edge Magnetic Field of Toroidal Fusion Plasmas 7'. E. Evans
Sommario/riassunto	This book aims to provide the readers with a wide panorama of different aspects related to Chaos, Complexity and Transport. It consists of a collection of contributions ranging from applied mathematics to experiments, presented during the CCT'07 conference (Marseilles, June 4-8, 2007). The book encompasses different traditional fields of physics and mathematics while trying to keep a

common language among the fields, and targets a nonspecialized audience.
