Record Nr. UNINA9910257383603321 Chaos, Kinetics and Nonlinear Dynamics in Fluids and Plasmas **Titolo** [[electronic resource]]: Proceedings of a Workshop Held in Carry-Le Rouet, France, 16–21 June 1997 / / edited by Sadruddin Benkadda, George M. Zaslavsky Pubbl/distr/stampa Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, 1998 **ISBN** 3-540-69180-4 Edizione [1st ed. 1998.] Descrizione fisica 1 online resource (VIII, 440 p.) Collana Lecture Notes in Physics, , 0075-8450 ; ; 511 Disciplina 532/.05 Soggetti Statistical physics Dynamical systems **Fluids** Thermodynamics Observations, Astronomical Astronomy—Observations **Astrophysics** Complex Systems Fluid- and Aerodynamics Astronomy, Observations and Techniques Astrophysics and Astroparticles Statistical Physics and Dynamical Systems Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di contenuto Dynamics in a neigborhood of separatrices of an area-preserving map -- On smooth Hamiltonian flows limited to ergodic billiards -- Strong variation of global-transport properties in chaotic ensembles -- Sticky orbits of chaotic Hamiltonian dynamics -- Turbulence: Beyond

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Sommario/riassunto

Over the last few years it has become apparent that fluid turbulence shares many common features with plasma turbulence, such as coherent structures and self-organization phenomena, passive scalar transport and anomalous diffusion. This book gathers very high level, current papers on these subjects. It is intended for scientists and researchers, lecturers and graduate students because of the review style of the papers.