



## Chaotic Dynamics and Transport in Classical and Quantum Systems: Proceedings of the NATO Advanced Study Institute on International Summer School on Chaotic Dynamics and Transport in Classical and Quantum Systems, Cargese, Corsica, 18

By -

Springer-Verlag New York Inc., United States, 2005. Hardback. Condition: New. 2005 ed.. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. From the 18th to the 30th August 2003 , a NATO Advanced Study Institute (ASI) was held in Cargese, Corsica, France. Cargese is a nice small village situated by the mediterranean sea and the Institut d Etudes Scientifiques de Cargese provides ? a traditional place to organize Theoretical Physics Summer Schools and Workshops \* in a closed and well equiped place. The ASI was an International Summer School on Chaotic Dynamics and Transport in Classical and Quantum Systems . The main goal of the school was to develop the mutual interaction between Physics and Mathematics concerning statistical properties of classical and quantum dynamical systems. Various experimental and numerical observations have shown new phenomena of chaotic and anomalous transport, fractal structures, chaos in physics accelerators and in cooled atoms inside atom-optics billiards, space-time chaos, fluctuations far from equilibrium, quantum decoherence etc. New theoretical methods have been developed in order to modelize and to understand these phenomena (volume preserving and ergodic dynamical systems, non-equilibrium statistical dynamics, fractional kinetics, coupled maps, space-time entropy, quantum dissipative processes etc). The school gathered...



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