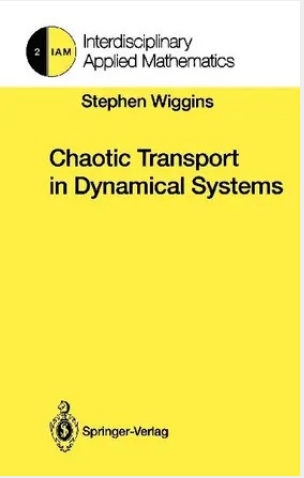
Wiggins

Chaotic Transport in Dynamical Systems

Provides a new and more realistic framework for describing the dynamics of non-linear systems. A number of issues arising in applied dynamical systems from the viewpoint of problems of phase space transport are raised in this monograph. Illustrating phase space transport problems arising in a variety of applications that can be modeled as time-periodic perturbations of planar Hamiltonian systems, the book begins with the study of transport in the associated two-dimensional Poincaré Map. This serves as a starting point for the further motivation of the transport issues through the development of ideas in a non-perturbative framework with generalizations to higher dimensions as well as more general time dependence. A timely and important contribution to those concerned with the applications of mathematics.

S. Wiggins presents a new and more realistic framework for describing the dynamics of non-linear systems. A number of transport problems in dynamical systems is reduced to a mathematical model. This book is a timely and important contribution to those concerned with the applications of mathematics.



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