Invariant Sets for Windows (World Scientific Series on Nonlinear Science, Series a)

Albert D. Morozov, Timothy N. Dragunov, Olga V. Malysheva

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This text deals with the visualization and exploration of invariant sets (fractals, strange attractors, resonance structures, and patterns) for various kinds of nonlinear dynamical systems. The authors have created a special Windows 96 application called WInSet, which allows one to visualize the invariant sets. A WInSet installation disk is enclosed with the book. The book consists of two parts. Part One contains a description of WInSet and a list of the built-in invariant sets which can be plotted using the program. This part is intended for a wide audience with interests ranging from dynamical systems to computer design. In Part Two, the invariant sets presented in Part One are investigated from the theoretical perspective. The invariant sets of dynamical systems with one, one-and-a-half, and two degrees of freedom, as well as those of two-dimensional maps, are discussed. The basic models of the diffusion equations are also considered. This part of the book is intended for a more advanced reader, with at least a BSc in mathematics.

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