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In three or more dimensions complex behavior, including chaos, is possible. For the most part, we will consider dynamical systems with low-dimensional phase spaces (say of dimension $d \geq 3$). The analysis of high-dimensional dynamical systems is usually very difficult, and may require (more or less well-founded) 1.4.

~~Introduction to Dynamical Systems John K. Hunter~~

Reviewed in the United States on September 13, 2005. This book is an introduction to dynamical systems defined by iterative maps of continuous functions. It doesn't require much advanced knowledge, but it does require a familiarity and certain level of comfort with proofs.

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to dynamical systems, the fundamental properties of such systems, the local bifurcation theory of flows and diffeomorphisms and the logistic map and area-preserving ...

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What is a Dynamical System? 1.1. Definitions As a mathematical discipline, the study of dynamical systems most likely originated at the end of the 19th century through the work of Henri Poincaré in his study of celestial mechanics (footnote this: See Scholarpedia[History of DS]). Once 1

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