



## *Mathematical Problems of Nonlinear Dynamics: A Tutorial*

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*(Received in final form 1 March 1997; accepted 20 March 1997)*

**ABSTRACT:** *We review the theory of nonlinear systems, especially that of strange attractors, and give its perspectives. Special attention is given to the recent results concerning hyperbolic attractors and features of high-dimensional systems in the Newhouse regions. We present an example of a "wild" strange attractor of the topological dimension three.* © 1997 The Franklin Institute. Published by Elsevier Science Ltd

### ***1. Introduction***

The early 1960s is the beginning of the intensive development of the theory of high-dimensional dynamical systems. Within a short period of time, Smale (66, 67) had established the basics of the theory of structurally stable systems with the complex behaviour of trajectories, the theory which we now know as the hyperbolic theory. In essence, a new mathematical discipline with its own terminology, notions, etc., has been created, which at the same time interacts actively with other mathematical disciplines. Here we must emphasize the role of the qualitative theory of differential equation (QTODEs). In fact, this theory provides a foundation for investigating many problems of natural sciences and engineering which have a nonlinear dynamics origin. On the other hand, the qualitative theory of differential equations itself takes new ideas from nonlinear dynamics. The usefulness and the necessity of such a synthesis were clear for scientists with a broad vision on science, such as Poincaré and Andronov. All this makes the QTODEs especially attractive and practical. Its achievements have led to one of the brightest scientific discoveries of the twentieth century—dynamical chaos. Since the moment of the discovery of dynamical chaos along with such customary dynamical regimes as stationary states, self-oscillations and modulations, chaotic oscillations entered science. If the mathematical images of the former are equilibrium states, periodic orbits and tori with quasiperiodic trajectories, then an appropriate image of dynamical chaos is a strange attractor, that is, an attractive limiting set with the unstable behaviour of its trajectories. Those attractors that retain this property under small smooth perturbations will interest us in this review. Such attractors have been predicted by the hyperbolic theory of high-dimensional dynamical systems.

# New Approaches To Nonlinear Problems In Dynamics

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