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Chapter 8 focuses on the semiclassical description of quantum systems with underlying classical chaos, and Chapter 9 discusses the quantum mechanics of systems driven by time-periodic forces. Chapter 10 reviews some recent work on the stochastic manifestations of chaos.

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Schematic illustration of the interplay between noise and dynamics on a Poincaré surface of section: (a) before and (b) after the transition to noisy chaos.

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resonances. Nonlinear resonances cause divergences in conventional perturbation expansions. This occurs because nonlinear resonances cause a topological change locally in the structure of the phase space and simple perturbation theory is not adequate to deal with such topological changes.

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Volume 91, number 6 PHYSICS LETTERS 20 September 1982 TRANSITION TO CHAOS VIA TWO-TORUS IN COUPLED REACTION-DIFFUSION CELLS Igor SCHREIBER and Miloš MAREK Department of Chemical Engineering, Prague Institute of Chemical Technology, 166 28 Prague 6, Czechoslovakia Received 21 June 1982 A numerical example of the transition to turbulence, where ...

Transition to chaos via two-torus in coupled reaction

Transition to Chaos Genya Zaytman March 9, 2005 1 Orbit Diagrams We can plot the orbit diagram of a parametrized function, for example, $Q_c(x) = x^2 + c$. In an orbit diagram we plot the parameter c on the horizontal axis and the asymptotic orbit of a given point, such as 0, on the vertical axis. We don't plot the first few iterates, typically

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Transition to chaos in converging--diverging channel flows

In sect. IV the reader can find a study on the transition to chaos for the flow systems. The transition to a positive value of $\hat{\nu} > 1$ can take place in two different settings: 2

Characterization of the spatial complex behavior and

Universality of Transition to Chaos in All Kinds of Nonlinear Differential Equations 135 with 2π - periodic coefficients. In Eqs. (2) α and β are arbitrary real constants.

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