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### **Bifurcations and Chaos in fractional-Order Simplified**

The purpose of this first chapter is to review and develop the necessary concepts from the theory of ordinary differential equations and dynamical systems which we will need for the remainder of ...

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Bifurcations and Chaos in Ecology: Lynx Returns Revisited JA VIER G. P. GAMARRA 1; 2 and RICARD V. SOL E 3 1 Complex Systems Research Group Department of Physics FEN, Univ

### **Bifurcations and Chaos in Ecology: Lynx Returns Revisited**

Bifurcations and Chaos in Simple Dynamical Systems Mrs. T.Theivasanthi, M.Sc., M.Phil. Lecturer in Physics, PACR Polytechnic College, Rajapalayam " 626117, India

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Chapter 1 Bifurcations and Chaos in Dynamical Systems Complex system theory deals with dynamical systems containing often a large number of variables.

### **Chapter 1 Bifurcations and Chaos in Dynamical Systems**

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Famous chaos control methods "OGY and DFC" have been used to suppress bifurcations and chaos in passive bipedal walking. Physicists have proposed many other methods for taming chaos such as changing the system parameters, synchronization, application of a damper and occasional proportional feedback (OPF) [105] .

### **Bifurcations and chaos in passive dynamic walking: A review**

Bifurcation theory is the mathematical study of changes in the qualitative or topological structure of a given family, such as the integral curves of a family of vector fields, and the solutions of a family of differential equations.

### **Bifurcation theory - Wikipedia**

the routes to chaos and show that in the spatially regular predator-prey system with the Allee effect, chaos appears as a result of series of period-doubling bifurcations. We also show that this system exhibits period-

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