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Dynamical Systems with Applications using Maple is aimed at senior undergraduates, graduate students, and working scientists in various branches of applied mathematics, the natural sciences, and engineering.

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This paper lists the Preface, Table of Contents, Index of Python Programs and the book Index.

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1.1. First-order systems of ODEs 1 1.2. Existence and uniqueness theorem for IVPs 3 1.3. Linear systems of ODEs 7 1.4. Phase space 8 1.5. Bifurcation theory 12 1.6. Discrete dynamical systems 13 1.7. References 15 Chapter 2. One Dimensional Dynamical Systems 17 2.1. Exponential growth and decay 17 2.2. The logistic equation 18 2.3. The phase ...

~~Introduction to Dynamical Systems John K. Hunter~~
Floquet theory is a branch of the theory of ordinary differential equations relating to the class of solutions to periodic linear differential equations of the form $\dot{x} = A(x) x$, with $A(x)$ a piecewise continuous periodic function with period T and defines the state of the stability of solutions.. The main theorem of Floquet theory, Floquet's theorem, due to Gaston Floquet ($1858-1928$), gives a canonical form for ...

~~Floquet theory - Wikipedia~~
In mathematics, a dynamical system is a system in which a function describes the time dependence of a point in a geometrical space.

~~Dynamical system - Wikipedia~~
Besides, it includes exercises and their solutions. As far as I know, it is the first book to deal with dynamical systems that has an intelligible approach for non mathematicians. Undoubtedly, it is a valuable book for students and scientists who work with dynamical systems in various branches of knowledge.

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Definition. A Lyapunov function for an autonomous dynamical system $\dot{x} = f(x)$ with an equilibrium point at x^* is a scalar function: $V(x)$ that is continuous, has continuous first derivatives, is strictly positive, and for which $-\nabla V \cdot f$ is also strictly positive. The condition that $-\nabla V \cdot f$ is strictly positive is sometimes stated as $-\nabla V \cdot f$ is "locally positive definite", or ...

~~Lyapunov function - Wikipedia~~
The 13th AIMS Conference on Dynamical Systems, Differential Equations and Applications June 5 - June 9, 2020 Atlanta, GA, USA Postponed tentatively to June, 2021; The Past Conference List >> AIMS Associated Conferences . Book Series. Random & Computational Dynamics Applied Mathematics

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