

Dynamical Systems With Applications Using Matlab

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

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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 $\dot{x} = A(t)x$, with $A(t)$ 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 (1838-1917), 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 a is a scalar function $V(x)$ that is continuous, has continuous first derivatives, is strictly positive, and for which $\dot{V}(x)$ is also strictly positive. The condition that $\dot{V}(x) < 0$ is strictly positive is sometimes stated as $\dot{V}(x) < 0$ is "locally positive definite", or ...

Lyapunov function—Wikipedia

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