

## 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  $\omega$  and defines the state of the stability of solutions.. The main theorem of Floquet theory, Floquet's theorem, due to Gaston Floquet ( $\omega$ ), 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  $a$  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  $V(x)$  is "locally positive definite", or ...

**Lyapunov function** — Wikipedia

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