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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 $\dot{x} = A(t)x$, 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

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Gaston Floquet ([link](#)), 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~~

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~~Lyapunov function - Wikipedia~~

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