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This monograph provides a definitive overview of recent advances in the stability and oscillation of autonomous delay differential equations. Topics include linear and nonlinear delay and...

Stability and Oscillations in Delay Differential Equations ...
This monograph provides a definitive overview of recent advances in the stability and oscillation of autonomous delay differential equations. Topics include linear and nonlinear delay and integrodifferential equations, which have potential applications to both biological and physical dynamic processes.

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In this paper, we shall study the oscillation of all positive solutions of the nonlinear delay differential equation and about their equilibrium points. Also, we study the stability of these equilibrium points and prove that every nonoscillatory positive solution tends to the equilibrium point when t tends to infinity. Where equation (*) proposed by Mackey and Glass [1] for a “dynamic ...

Oscillation and stability in nonlinear delay differential ...
Differential equations; stability, oscillations, time lags. Check out the new look and enjoy easier access to your favorite features

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This book presents the authors' recent work on the numerical methods for the stability analysis of linear autonomous and periodic delay differential equations, which consist in applying pseudospectral techniques to discretize either the solution operator or the infinitesimal generator and in using the eigenvalues of the resulting matrices to approximate the exact spectra.

Stability Of Linear Delay Differential Equations

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STABILITY ANALYSIS OF DELAY DIFFERENTIAL EQUATIONS WITH TWO DISCRETE DELAYS XIHUI LIN AND HAO WANG ABSTRACT. Weuseanalgebraicmethodtoderiveaclosed form for stability switching curves of delayed systems with two delaysanddelayindependent coe cients forthe rsttime. Fur-thermore, we provide some properties of these curves and sta-bility switching directions.

STABILITY ANALYSIS OF DELAY DIFFERENTIAL EQUATIONS WITH ...

In mathematics, delay differential equations (DDEs) are a type of differential equation in which the derivative of the unknown function at a certain time is given in terms of the values of the function at previous times. DDEs are also called time-delay systems, systems with aftereffect or dead-time, hereditary systems, equations with deviating argument, or differential-difference equations.

Delay differential equation - Wikipedia

OSCILLATION AND ASYMPTOTIC STABILITY OF A DELAY DIFFERENTIAL EQUATION WITH RICHARD'S NONLINEARITY LEONID BEREZANSKY, LEV IDELS Abstract. We obtain sufficient conditions for oscillation of solutions, and for asymptotical stability of the positive equilibrium, of the scalar nonlinear delay differential equation dN dt = r(t)N(t) h a − Xm k=1 b kN(g k(t)) yi,

OSCILLATION AND ASYMPTOTIC STABILITY OF A DELAY ...

Uncertain delay differential equation is a type of differential equations driven by a canonical Liu process. This paper mainly focuses on the stability of uncertain delay differential equations.

Stability of uncertain delay differential equations

Asymptotic properties of solutions such as stability/ instability,oscillation/ nonoscillation, existence of solutions with specific asymptotics, maximum principles present a classical part in the theory of higher order functional differential equations. The use of these equations in applications is one of the main reasons for the developments in this field. The control in the mechanical ...

Oscillation, Nonoscillation, Stability and Asymptotic ...

Li B.Oscillation of first order delay differential equations Proc. Amer. Math. Soc., 124 (12) (1996), pp. 3729–3737 CrossRef View Record in Scopus Google Scholar

Oscillation criteria for first order linear delay ...

In mathematics, a stiff equation is a differential equation for which certain numerical methods for solving the equation are numerically unstable, unless the step size is taken to be extremely small.It has proven difficult to formulate a precise definition of stiffness, but the main idea is that the equation includes some terms that can lead to rapid variation in the solution.

Stiff equation - Wikipedia

Euler–Maclaurin Method for Linear Differential Equations with Piecewise Constant Arguments with One Delay: Stability and Oscillations Qi Wang , 1 Jiechang Wen , 1 and Shenshan Qiu 2 1 School of Applied Mathematics, Guangdong University of Technology, Guangzhou 510006, China

Euler–Maclaurin Method for Linear Differential Equations ...

The present work is devoted to the global stability analysis for a class of functional differential equations with distributed delay and non-monotone bistable nonlinearity. First, we characterize some subsets of attraction basins of equilibria.

Global stability for a class of functional differential ...

R. K. Gaines and J. L. Mawhin, Coincidence Degree and Nonlinear Differential Equations, Springer-Verlag, Berlin, 1977. Google Scholar [13] K. Gopalsamy, Stability and Oscillations in Delay Differential Equations of Population Dynamics, Kluwer Academic Press, Boston, 1992.

Periodic and almost periodic oscillations in a delay ...

This paper deals with the oscillations of numerical solutions for the nonlinear delay differential equations in physiological control systems. The exponential -method is applied to and it is shown that the exponential -method has the same order of convergence as that of the classical -method.