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OSCILLATION AND STABILITY OF EQUATION (1.1) In this section, we establish some sufficient conditions for oscillation of all positive solutions of equation (1.1) about $K^* = 1/k$, where k is positive equilibrium point of the equation $y(t) = y(t) [q_+ + y_n(t - T) 1y(t)] > (2.1)$ with $p_i = e^{\lambda_i}$ and $q_i = -\lambda_i$ are positive constants. (2.2) Also, we investigate the sufficient condition of K^* to be locally asymptotically stable and prove that every nonoscillatory solution tends to K^* as $t \rightarrow \infty$. Equation ...

Oscillation and stability in nonlinear delay differential ...

Incorporating a time lag τ into even a simple neural circuit with feedback yields a scalar delay differential equation $u'(t) = -\beta u(t) + wf(u(t - \tau))$ that defines a semiflow on the infinite-dimensional phase space $C = C([- \tau, 0]; \mathbb{R})$ of continuous functions on the initial interval $[- \tau, 0]$.

Time-Delayed Neural Networks: Stability and Oscillations ...

Stability and Oscillations in Delay Differential Equations of Population Dynamics (Mathematics and Its Applications) 1992nd Edition by K. Gopalsamy (Author) > Visit Amazon's K. Gopalsamy Page. Find all the books, read about the author, and more. See search ...

Stability and Oscillations in Delay Differential Equations ...

In this paper we continue the study of stability properties of differential equations with variable delays and coefficients which was begun in [1, 2]. Here we consider the equation with one delay $(1) x(t) + a(t)x(h(t)) = 0, t \geq 0$, where $h(t) \leq t$ and $a(t)$ is an oscillating function.

On exponential stability of a linear delay differential ...

This paper focuses on the stability and oscillations of Euler-Maclaurin method for linear

differential equations with piecewise constant arguments . The necessary and sufficient conditions under which the numerical stability region contains the analytical stability region are given. Furthermore, the conditions of oscillation for the Euler-Maclaurin method are obtained. We prove that the Euler-Maclaurin method preserves the oscillations of the analytic solution. Moreover, the relationships ...

Euler-Maclaurin Method for Linear Differential Equations ...

In mathematics, delay differential equations ... In worst cases (time-varying delays, for instance), it is potentially disastrous in terms of stability and oscillations. Voluntary introduction of delays can benefit the control system. In spite of their complexity, DDEs often appear as simple infinite-dimensional models in the very complex area of partial differential equations (PDEs). A ...

Delay differential equation - Wikipedia

The main results of this paper are that the oscillation and the stability of a linear impulsive delay differential equation are equivalent respectively to the oscillation and the stability of a corresponding linear delay differential equation without impulses. The results of this paper can be used to improve and derive some of the

Oscillation and Stability of Linear Impulsive Delay ...

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 $dN/dt = r(t)N(t)h(a - X_m k=1 b_k N(g_k(t)))y_i$, where $g_k(t) \leq t$. 1 ...

OSCILLATION AND ASYMPTOTIC STABILITY OF A DELAY ...

Keywords: oscillation, stability, uniform stability, delay differential equations, impulse effects. 2010 Mathematics Subject Classification: 34K11, 34K20, 34K45. 1 Introduction The theory of impulsive differential equations is an important area of scientific activity, since every nonimpulsive differential equation can be regarded as an impulsive differential equation with no impulse effect ...

Oscillation and stability of first-order delay differential ...

Kubiacyk and Saker (2002) studied stability and oscillations in system of non-linear delay differential equations of population dynamics. Ruan and Wei (2003) used Rouches theorem for the ...

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Blązejewko, Pologne) Functional differential systems ...

Équations différentielles à retard - accueil (data.bnf.fr)

convergence for a delay differential equation modeling platelet production. Discrete and Continuous Dynamical Systems - Series B, American Institute of Mathematical Sciences, 2019, 24 (6), pp.2417-2442. 10.3934/dcdsb.2018259. hal-01835435v2 OSCILLATIONS AND ASYMPTOTIC CONVERGENCE FOR A DELAY DIFFERENTIAL EQUATION MODELING PLATELET PRODUCTION Lo s Boullu Univ Lyon, Universit e ...

Oscillations and asymptotic convergence for a delay ...

The control in the mechanical processes leads to mathematical models with second order delay differential equations. Stability and stabilization of second order delay equations are one of the main goals of this book. The book is based on the authors' results in the last decade.

Oscillation, Nonoscillation, Stability and Asymptotic ...

I. Kubiacyk and S. Saker, Oscillation and stability in nonlinear delay differential equations of population dynamics, Mathematical and Computer Modelling, 35 (2002), 295-301. doi: 10.1016/S0895-7177(01)00166-2.

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