

Article

Conditions for the Oscillation of Solutions to Neutral Differential Equations of Higher Order

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Abstract: In this research, we applied three techniques—the comparison technique, the Riccati technique, and the integral averages technique to analyze and establish various conditions and properties associated with the oscillatory behavior of even-order neutral differential equations. These findings contribute to a better understanding of the dynamics of such equations. To demonstrate the efficacy of these new conditions and properties, we present illustrative examples. This study offers valuable insights into the behavior of neutral differential equations, advancing our knowledge in this field.

Keywords: oscillation conditions; neutral; even-order; differential equation

MSC: 34C10; 34K11

1. Introduction

In this paper, we obtain some oscillation conditions of even-order NDEs of the form

$$\left(a(x)w^{(\beta-1)}(x)\right)' + b(x)\varphi(\xi(z(x))) = 0, \quad (1)$$

where

$$w(x) = |\xi(x)|^{p-2}\xi(x) + \zeta(x)\xi(\gamma(x)), \quad (2)$$

and $\beta \geq 2$, $p > 1$, $a, \zeta \in C([x_0, \infty), [0, \infty))$, $b \in C([x_0, \infty), \mathbb{R}^+)$, $a(x) > 0$, $a'(x) \geq 0$, $0 \leq \zeta(x) < 1$, $\gamma \in C([x_0, \infty), (0, \infty))$, $\gamma(x) \leq x$, $\lim_{x \rightarrow \infty} \gamma(x) = \infty$; $z \in C([x_0, \infty), \mathbb{R})$, $\varphi \in C(\mathbb{R}, \mathbb{R})$, $\varphi(\xi) \geq |\xi|^{p-2}\xi$ for $\xi \neq 0$, $z(x) \leq x$, $z'(x) > 0$, $\lim_{x \rightarrow \infty} z(x) = \infty$, and β and p are even positive integers. Also

$$\int_{x_0}^{\infty} \frac{1}{a(s)} ds = \infty. \quad (3)$$

Differential equations serve as powerful mathematical tools for modeling and understanding dynamic systems in various fields, from physics to biology and engineering. They describe how quantities change in relation to each other, capturing the essence of continuous change in natural phenomena. The significance of differential equations lies in their ability to predict and analyze complex behaviors, providing crucial insights into the evolution of systems over time. Their widespread application facilitates advancements in science, technology, and innovation, making them an indispensable tool for solving real-world problems. In essence, differential equations form the backbone of mathematical modeling, enabling us to unravel the intricacies of dynamic processes and make informed decisions, see [1,2].

Neutral differential equations represent a specialized class of differential equations that involve delays in both the dependent variable and its derivatives. These equations play a crucial role in modeling real-world phenomena where past values and their rates



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