Asymptotic Properties of Solutions of Second Order Nonlinear

Differential Equations with Deviating Argument

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Abstract [1]

In the paper sufficient conditions are found under which for all oscillatory solutions of the equation

$$(r(t)y'(t))' + a(t)f(g(g(t))) = b(t),$$

there is $\lim_{t \to \infty} y(t) = 0$. Sufficient conditions are also found so that all solutions of this equation are unbounded.