

Necessary and Sufficient Conditions for the Oscillation of Forced Nonlinear Second Order Delay Difference Equation.

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Abstract: In this paper the authors give necessary and sufficient conditions for the oscillation of solutions of nonlinear delay difference equations of Emden–Fowler type in the form $\Delta^2 y_{n-1} + q_n y_{\sigma(n)}^\gamma = g_n$, where γ is a quotient of odd positive integers, in the superlinear case ($\gamma > 1$) and in the sublinear case ($\gamma < 1$).

Keywords:

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