Almost Oscillation Criteria for Second–Order Neutral Difference Equation with Quasidifferences

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Some almost oscillation criteria for the second–order nonlinear neutral difference equation with quasidifferences

$$\Delta\left(r_n\left(\Delta\left(x_n+cx_{n-k}\right)\right)^{\gamma}\right)+q_nx_{n+1}^{\alpha}=e_n.$$

are established. The results are illustrated by examples.

References

[1] R. Jankowski, E. Schmeidel, *Almost oscillation criteria for second order neutral difference equation with quasidifferences*, Int. J. Difference Equ. 9, 2014, 77–86..

[2] R. Jankowski, E. Schmeidel, *Almost Oscillatory Solutions of Second Order Difference Equations of Neutral Type*, Recent Advances in Delay Differential and Difference Equations, Springer Proceedings in Mathematics & Statistics, 2014, (to appear).