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Oscillation of Second Order Nonlinear Delay Damped Difference Equations

S. H. SAKER(1), B. G. ZHANG(2)

(1)Department of Mathematics, Faculty of Science, Mansoura University, Mansoura 35516, Egypt; (2) Department of Mathematics, Ocean University of China Qingdao, 266071, P. R. C

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摘要

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Oscillation of Second Order Nonlinear Delay Damped Difference Equations

S. H. SAKER(1), B. G. ZHANG(2)

(1)Department of Mathematics, Faculty of Science, Mansoura University, Mansoura 35516, Egypt; (2) Department of Mathematics, Ocean University of China Qingdao, 266071, P. R. C

Abstract Some new oscillation criteria for nonlinear delay difference equation with damping $\Delta^2 x_n + p_n \Delta x_n + F(n, x_{n-\tau}, x_{n-\sigma}) = 0$, $n=0, 1, 2, \dots$ are given. Our results partially solve the open problem posed in [Math. Bohemica], 125 (2000), 421--430]. Also, we will establish some new oscillation criteria for special cases of (\ast) which improve some of the well-known results in the literature.

Key words [oscillation](#) [second-order difference equations](#) [Riccati techniques](#)

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通讯作者 S. H. Saker shsaker@mum.mans.edu.eg