

## OSCILLATION CRITERIA FOR EVEN ORDER NONLINEAR NEUTRAL DIFFERENCE EQUATIONS

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*Abstract.* Some new oscillation results are obtained for the even order nonlinear neutral difference equation of the form

$$\Delta(a_n \Delta^{m-1} z_n) + q_n f(x_{n-\sigma}) = 0$$

where  $z_n = x_n + p_n x_{\tau(n)}$ . Our results generalize and improve some of the existing results. Two examples are provided to illustrate the main results.

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