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Oscillation of solutions of forced nonlinear second order difference equations. (English)

[Zbl 1056.39010](#)

Sahadevan, R. (ed.) et al., Nonlinear systems. Proceedings of the 8th Ramanujan symposium on recent developments in nonlinear systems, University of Madras, Chennai, India, February 14–16, 2001. Boca Raton, FL: Chapman and Hall/CRC; New Delhi: Narosa Publishing House (ISBN 0-8493-1722-3; 81-7319-456-4). 221-238 (2002).

Summary: Sufficient conditions are obtained for oscillation of all solutions / all bounded solutions of nonlinear delay-difference equations of the form

$$y(n+1) + \alpha(n)y(n) + \beta(n)g(y(n-m)) = f(n)$$

and the associated homogeneous equations.

For the entire collection see [[Zbl 1044.37001](#)].

MSC:

39A11 Stability of difference equations (MSC2000)

Cited in 1 Document

Keywords:

[oscillation](#); [bounded solutions](#); [nonlinear delay-difference equations](#)