

## PHILOS TYPE CRITERIA FOR SECOND-ORDER HALF-LINEAR DYNAMIC EQUATIONS

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*Abstract.* Some new criteria for the oscillation of solutions of the second-order half-linear dynamic equation

$$\left(a \left(x^\Delta\right)^\alpha\right)^\Delta(t) + q(t)x^\alpha(t) = 0$$

are established when  $\int^\infty a^{-1/\alpha}(s)\Delta s = \infty$ .

*Mathematics subject classification (2010):* 34C10, 39A10, 34N05, 34C15, 34K11, 39A21.

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