

Howard, H. C.; Marić, V.

Regularity and nonoscillation of solutions to second-order linear differential equations.

(English) [Zbl 0947.34015](#)

Bull., Cl. Sci. Math. Nat., Sci. Math. 114, No. 22, 85-98 (1997).

It is proved that oscillation / nonoscillation criteria of the Kneser-Hille type imply also regularity in the sense of Karamata of all nonoscillatory solutions to the equation

$$y'' + f(x)y = 0,$$

where $f(x)$ is continuous and of arbitrary sign on some positive halfaxis.

Reviewer: Julka Miljanović-Knežević (Zemun)

MSC:

34C10 Oscillation theory, zeros, disconjugacy and comparison theory for ordinary differential equations

26A12 Rate of growth of functions, orders of infinity, slowly varying functions

Cited in **1** Review
Cited in **12** Documents

Keywords:

second-order linear equations; regular variation; Karamata class