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On the sharp oscillation criteria for half-linear second-order differential equations with several delay arguments. (English) [Zbl 07422772](#)
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Summary: In the paper, we offer a qualitatively unimprovable oscillation result for half-linear several delay second-order differential equations, which improves and generalizes the one from the very recent study [*I. Jadlovská and J. Džurina, Appl. Math. Comput.* 380, Article ID 125289, 14 p. (2020; [Zbl 1451.34086](#))]. The sharpness of our newly obtained criterion is illustrated via Euler-type half-linear several delay differential equations.

MSC:

[34K11](#) Oscillation theory of functional-differential equations

[34C10](#) Oscillation theory, zeros, disconjugacy and comparison theory for ordinary differential equations

Keywords:

second-order differential equation; several delay arguments; half-linear; oscillation

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