

Название публикации:

On non-oscillation on semi-axis of solutions of second order deviating differentiale quations

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Наименование журнала:

MATHEMATICA BOHEMICA

Том: 143 Выпуск: 4 Стр.: 355-376

Аннотация:

We obtain conditions for existence and (almost) non-oscillation of solutions of a second order linear homogeneous functional differential equations

$$u''(x) + \sum_{i=1}^n p(i)(x)u'(h(i)(x)) + \sum_{i=1}^n q(i)(x)u(g(i)(x)) = 0$$

without the delay conditions $h(i)(x), g(i)(x) \leq x, i = 1, 2, \dots$, and

$$u''(x) + \int_0^{\infty} u'(s)d(s)r(1)(x, s) + \int_0^{\infty} u(s)d(s)r(0)(x, s) = 0.$$

Ключевые слова:

non-oscillation; deviating non-delay equation; singular boundary value problem