

Poslavskii, S. Yu.

Method for calculating the stability of nonlinear systems with time delays. (Russian. English summary) [Zbl 1324.70029](#)

Visn. Khark. Univ., Ser. Mat. Prykl. Mat. Mekh. 1133, No. 70, 48-55 (2014).

Summary: A simple method for calculating the exponential stability of some classes of nonlinear systems containing varying and distributed delays is proposed. An upper bound for the largest Lyapunov exponent is found. Examples, illustrating application of the developed technique, are given.

MSC:

[70K20](#) Stability for nonlinear problems in mechanics

Keywords:

[exponential stability](#); [time delay](#); [Lyapunov exponent](#)