Apalara, Tijani A.; Soufyane, Abdelaziz
A general stability result for a nonlinear viscoelastic coupled Kirchhoff system with distributed delay. (English) Zbl 07492755 Afr. Mat. 33, No. 1, Paper No. 12, 13 p. (2022)

Summary: In this paper, we consider a nonlinear coupled Kirchhoff system with viscoelastic damping and a distributed delay. We established a general stability result, where an exponential result in the literature is only a particular case. We illustrate the stability result with some examples.

MSC:
34K20 Stability theory of functional-differential equations
35G60 Boundary value problems for systems of nonlinear higher-order PDEs

Keywords:
Kirchhoff system; general stability; viscoelastic damping; distributed delay

Full Text: DOI

References:

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