

Rahmoune, Abita**General decay for a viscoelastic equation with time-varying delay in the boundary feedback condition.** (English) [Zbl 1479.35114](#)[Math. Mech. Complex Syst. 9, No. 2, 127-142 \(2021\)](#).

Summary: This paper is devoted to the study of the weak viscoelastic equation with memory and nonlinear time-varying delay in the boundary feedback condition. To this aim, we consider a mathematical model which describes the viscoelastic system with memory in a bounded domain. We establish the general decay estimate for the energy by introducing suitable Lyapunov functionals.

MSC:[35B40](#) Asymptotic behavior of solutions to PDEs[35L20](#) Initial-boundary value problems for second-order hyperbolic equations[35R09](#) Integro-partial differential equations[93D15](#) Stabilization of systems by feedback**Keywords:**[general decay](#); [weak viscoelastic equation](#); [time-varying delay](#)**Full Text:** [DOI](#)