Decay of solutions for a viscoelastic wave equation with acoustic boundary conditions

abita rahmoune¹

¹Universite Amar Telidji Laghouat

May 5, 2020

Abstract

In this report we prove that the hypothesis on the memory term \$g\$ in \cite% {WenjunYunSun} can be modified to be \$g^{\prime }(t)\eq -\zeta (t)g^{p}(t)\$% , \$t\geq 0,\$ \$1\leq p<\frac{3}{2}\$ where \$zeta (t)\$ provides% \begin{equation*} \zeta \left(0)right) >0,\text{ }\zeta ^{\prime }(t)\leq 0,\text{ }% \int_{0}^{\pi} \xspace{0,\$ \$1\leq 0,\$ \$1\leq 0

Hosted file

Manuscript.pdf available at https://authorea.com/users/294121/articles/422293-decay-of-solutions-for-a-viscoelastic-wave-equation-with-acoustic-boundary-conditions