

ASYMPTOTIC BEHAVIOUR OF THE VISCOELASTIC WAVE EQUATION

We are concerned with the global existence as well as the asymptotic behaviour of some viscoelastic evolution models. In the presence of viscoelastic effects given by a memory term with past history, we establish the global existence of solutions and the uniform decay rates of those solutions.

We observe that the origin of modern viscoelasticity traces back to the works of Boltzman [1, 2] and Volterra [3, 4].

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