

Blow up of solutions for a nonlinear Petrovsky type Equation with Logarithmic Nonlinearity

Nazlı IRKİL¹ and Erhan Pişkin¹

¹Dicle University

November 2, 2020

Abstract

The aim of this paper is to investigate the initial boundary value problem of nonlinear viscoelastic Petrovsky type equation with logarithmic nonlinearity. We derive the blow up results by the combination of the perturbation energy method, concavity method and differential-integral inequality technique.

Hosted file

Blow up for Petrovsky type equation with logarithmic nonlinearity-Nazlı\selectlanguage{polish}1\selectlanguage{polish} available at <https://authorea.com/users/372215/articles/490324-blow-up-of-solutions-for-a-nonlinear-petrovsky-type-equation-with-logarithmic-nonlinearity>

Hosted file

Blow up for Petrovsky type equation with logarithmic nonlinearity-Nazlı\selectlanguage{polish}1\selectlanguage{polish} available at <https://authorea.com/users/372215/articles/490324-blow-up-of-solutions-for-a-nonlinear-petrovsky-type-equation-with-logarithmic-nonlinearity>