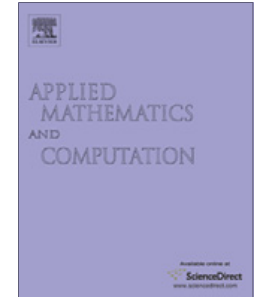




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1-Soliton solution of the coupled KdV equation and Gear–Grimshaw model

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ABSTRACT

This paper carries out the integration of the coupled KdV equation with power law nonlinearity. The solitary wave ansatz is used to carry out the integration. The domain restrictions of the coefficients of nonlinear and dispersion terms fall out. The results are then supplemented by numerical simulations.

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