

The Homotopy Perturbation Method for Solving Nonlinear Burgers and New Coupled Modified Korteweg-de Vries Equations

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Z. Naturforsch. **63a**, 627 – 633 (2008); received April 23, 2008

We use the homotopy perturbation method to find the travelling wave solutions of nonlinear Burgers and new coupled modified Korteweg-de Vries equations. The results reveal that the homotopy perturbation method is very effective, convenient and quite accurate to systems of nonlinear equations. It is predicted that the homotopy perturbation method can find wide application in engineering and physics.

Key words: Homotopy Perturbation Method; Travelling Wave Solutions; Nonlinear Burgers and New Coupled MKdV Equations; Nonlinear Partial Differential Equations.