An Improved Modified Extended tanh-Function Method

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In this paper we further improve the modified extended tanh-function method to obtain new exact solutions for nonlinear partial differential equations. Numerical applications of the proposed method are verified by solving the improved Boussinesq equation and the system of variant Boussinesq equations. The new exact solutions for these equations include Jacobi elliptic doubly periodic type, Weierstrass elliptic doubly periodic type, triangular type and solitary wave solutions.

Key words: Nonlinear Evolution Equation; Modified Extended tanh-Function Method; Travelling Wave.