El-Kady, M.; El-Sayed, S. M.; Fathy, H. E.
Development of Galerkin method for solving the generalized Burger’s-Huxley equation.
(English) [Zbl 1296.65137]

Summary: Numerical treatments for the generalized Burger’s-Huxley GBH equation are presented. The treatments are based on cardinal Chebyshev and Legendre basis functions with Galerkin method. Gauss quadrature formula and El-gendi method are used to convert the problem into a system of ordinary differential equations. The numerical results are compared with the literatures to show efficiency of the proposed methods.

MSC:

65M70 Spectral, collocation and related methods for initial value and initial-boundary value problems related to PDEs

35Q53 KdV equations (Korteweg-de Vries equations)

Full Text: DOI

References:


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