

A LEGENDRE PSEUDOSPECTRAL METHOD FOR SOLVING NONLINEAR KLEIN-GORDON EQUATION

收稿日期 1994-11-15 修回日期 网络版发布日期 接受日期

摘要

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Abstract A Legendre pseudospectral scheme is proposed for solving initial-boundary value problem of nonlinear Klein-Gordon equation. The numerical solution keeps the discrete conservation. Its stability and convergence are investigated. Numerical results are also presented, which show the high accuracy. The technique in the theoretical analysis provides a framework for Legendre pseudospectral approximation of nonlinear multi-dimensional problems.

Key words

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