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Multisymplectic Structure and Multisymplectic Scheme for the Nonlinear Wave Equation

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摘要 The multisymplectic structure of the nonlinear wave wquation is derived directly from the variational principle. In the numerical aspect, we present a multisymplectic nine points scheme which is equivalent to the multisymplectic Preissman scheme. A series of numerical results are reported to illustrate the effectiveness of the scheme.

关键词 <u>multisymplectic structure</u> <u>multisymplectic schemes</u>

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Key words multisymplectic structure multisymplectic schemes

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