

Non-polynomial Cubic Spline Method for the Solution of Second-order Linear Hyperbolic Equations

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Abstract

Second-order linear hyperbolic equations are solved by using a new three level method based on non-polynomial spline in the space direction and Taylor expansion in the time direction. Numerical results reveal that three level method based on non-polynomial spline is implemented and effective.

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figures/ncaglarfig1/ncaglarfig1-eps-converted-to.pdf

figures/ncaglarfig2/ncaglarfig2-eps-converted-to.pdf