

New Exact Travelling Wave Solutions of the Discrete Sine-Gordon Equation

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In this paper, we explore more applications of the hyperbolic function approach, which was used to find new exact travelling wave solutions of nonlinear partial differential equations or coupled nonlinear partial differential equations (PDES), to special discrete nonlinear equations. Some exact travelling wave solution of the discrete sine-Gordon equation are obtained in terms of hyperbolic function approach. – PACS numbers: 05.45.Yv, 02.30.Jr, 02.30.Ik

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