

On Some Classes of Breather Lattice Solutions to the sinh-Gordon Equation

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In this paper, dependent and independent variable transformations are introduced to solve the sinh-Gordon equation by using the knowledge of the elliptic equation and Jacobian elliptic functions. It is shown that different kinds of solutions can be obtained to the sinh-Gordon equation, including breather lattice solutions and periodic wave solutions.

Key words: Jacobian Elliptic Function; sinh-Gordon Equation; Periodic Wave Solution;
Breather Lattice Solution.

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