

Reduction and New Explicit Solutions of (2+1)-Dimensional Breaking Soliton Equation

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Abstract: By applying the Lie group method, the (2+1)-dimensional breaking soliton equation is reduced to some (1+1)-dimensional nonlinear equations. Based upon some new explicit solutions of the (2+1)-dimensional breaking soliton equation are obtained.

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Key words: breaking soliton equation, Lie group method, symmetry, explicit solution

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