

New Soliton-like Solutions for (2+1)-Dimensional Breaking Soliton Equation

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Abstract: The (2+1)-dimensional breaking soliton equation describes the interaction of a Riemann wave propagating along the y-axis with a long wave along the x-axis. In this paper, with the aid of symbolic computation, six kinds of new special exact soliton-like solutions of (2+1)-dimensional breaking soliton equation are obtained by using some general transformations and the further generalized projective Riccati equation method.

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Key words: (2+1)-dimensional breaking soliton equation, generalized projective Riccati equation method, soliton-like solution

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