

Extended Complex tanh-Function Method and Exact Solutions to(2+1)-Dimensional Hirota Equation

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Abstract: In this paper, a new extended complex tanh-function method is presented for constructing traveling wave, non-traveling wave, and coefficient functions' soliton-like solutions of nonlinear equations. This method is more powerful than the complex tanh-function method [Chaos, Solitons and Fractals 20 (2004) 1037]. Abundant new solutions of (2+1)-dimensional Hirota equation are obtained by using this method and symbolic computation system Maple.

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Key words: nonlinear equations, symbolic computation, extended complex tanh-function method, exact solutions

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