

New Exact Solutions of Multi-component mKdV Equation

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(Received: 2005-9-5; Revised:)

Abstract: In this paper, new Jacobi elliptic function solutions of multi-component mKdV equation are obtained directly in a unified way. When the modulus $m \rightarrow 1$, those periodic solutions degenerate as the corresponding hyperbolic function solutions. Then, to the three-component mKdV equation, five types of effective solution are presented in detail.

PACS: 02.30.1k, 05.45.Yv

Key words: multi-component mKdV equation, exact solution, Jacobi elliptic function, hyperbolic function

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