量子物理

Broer–Kaup–Kupershmidt方程的新精确解

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摘要：

CK方法是求解非线性发展方程的一种有效的直接方法.利用推广的CK方法，求得(2+1)维Broer–Kaup–Kupershmidt方程的Backlund公式，从而获得方程的大量新的精确解，推广了文献[13-14]中的结果.

关键词： 非线性发展方程　Broer–Kaup–Kupershmidt方程　精确解　CK方法　Backlund变换

New exact solutions of Broer–Kaup–Kupershmidt equation

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Abstract:

CK method is a powerful direct method for nonlinear equation. By using the modified CK method , we obtain the Backlund transformation of the (2+1)-dimensional Broer–Kaup–Kupershmidt equations．So a lot of new solutions are found, and some known results in the paper [13-14] were generalized.

Keywords: nonlinear equation　Broer–Kaup–Kupershmidt equation　exact solutions　CK method　Backlund transformation

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