

量子物理

(2+1) 维非线性发展方程的对称约化和显式解

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摘要:

利用相容方法, 得到了(2+1)维非线性发展方程的对称, 并根据相应的特征方程组得到了(2+1)维非线性发展方程的相似约化, 同时得到了一些新的显式解.

关键词: (2+1)维非线性发展方程 对称约化 显式解

Symmetry reductions and explicit solutions of the (2+1)-dimensional nonlinear evolution equation

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Abstract:

Using the compatibility method, we obtain the symmetry of the nonlinear evolution equation. By solving the corresponding characteristic equations associated with symmetry equations, symmetry reductions of the (2+1)-dimensional nonlinear evolution equation are given first, then some special type of new explicit solutions are presented.

Keywords: (2+1)-dimensional nonlinear evolution equation symmetry reduction explicit solutions

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