

New Exact Solutions of the Integrable Broer-Kaup Equations in (2+1)-Dimensional Spaces

LI De-Sheng,^{1,2} and ZHANG Hong-Qing¹

¹ Department of Applied Mathematics, Dalian University of Technology, Dalian 116024, China

² Science School, Shenyang University of Technology, Shenyang 110023, China

(Received: 2003-7-3; Revised: 2003-8-4)

Abstract: In this paper, by improving some procedure of extended tanh-function method, some new exact solutions to the integrable Broer-Kaup equations in (2+1)-dimensional spaces are obtained, which include soliton-like solutions, solitary wave solutions, trigonometric function solutions, and rational solutions.

PACS: 02.30.Ik, 05.45.Yv

Key words: extended tanh method, soliton-like solutions, trigonometric function solutions, solitary waves, rational solutions

[\[Full text: PDF\]](#)

Close