Notes on Multi-linear Variable Separation Approach

SHEN Shou-Feng,[1] ZHANG Jun,[1] and PAN Zu-Liang[2]

[1] Department of Mathematics, Zhejiang University of Technology, Hangzhou 310014, China
[2] Department of Mathematics, Zhejiang University, Hangzhou 310027, China

Abstract: The multi-linear variable separation approach method is very useful to solve (2+1)-dimensional integrable systems. In this letter, we extend this method to solve (1+1)-dimensional Boiti system, (2+1)-dimensional Burgers system, (2+1)-dimensional breaking soliton system, and (2+1)-dimensional Maccari system. Some new exact solutions are obtained and the universal formula obtained from many (2+1)-dimensional systems is extended or modified.

[Full text: PDF]

Close