

New Families of Rational Form Solitary Wave Solutions to (2+1)-Dimensional Broer-Kaup- Kupersmidt System

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Abstract: Taking the (2+1)-dimensional Broer-Kaup-Kupersmidt system as a simple example, some families of rational form solitary wave solutions, triangular periodic wave solutions, and rational wave solutions are constructed by using the Riccati equation rational expansion method presented by us. The method can also be applied to solve more nonlinear partial differential equation or equations.

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Key words: Riccati equation rational expansion method, (2+1)-dimensional Broer-Kaup-Kupersmidt system, symbolic computation, rational form solitary wave solutions

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