

On the exact solutions of the Zakharov-Kuznetsov type nonlinear partial differential equation

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Using the special exp-function method, traveling wave exact solutions of the (2+1)D nonlinear Zakharov-Kuznetsov type partial differential equation are obtained. It is shown that such solutions can be expressed through hyperbolic, trigonometric, exponential, and rational functions and have spatially isolated structural (soliton-like) forms. Revision of previously obtained solutions is discussed.

References

1. Tsamalashvili, L. Special exp-function method for traveling wave solutions of Burger's equation. Reports of Enlarged sessions of the seminar of I.Vekua Institute of Applied Mathematics, 30 (2016), 106-109.