

Extended Mapping Transformation Method and Its Applications to Nonlinear Partial Differential Equation(s)

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Abstract: In this paper, we extend the mapping transformation method through introducing variable coefficients. By means of the extended mapping transformation method, many explicit and exact general solutions with arbitrary functions for some nonlinear partial differential equations, which contain solitary wave solutions, trigonometric function solutions, and rational solutions, are obtained.

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Key words: nonlinear partial differential equations, extended mapping transformation method, exact solutions

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