

Variable Separation and Exact Separable Solutions for Equations of Type $u_{xt}=A(u, u_x)$
 $u_{xx}+B(u, u_x)$

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Abstract: The generalized conditional symmetry is developed to study the variable separation for equations of type $u_{xt}=A(u, u_x)u_{xx}+B(u, u_x)$. Complete classification of those equations which admit derivative-dependent functional separable solutions is obtained and some of their exact separable solutions are constructed.

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Key words: nonlinear evolution equations, variable separation, generalized conditional symmetry

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