

Construction of exact solution to a family of wave equation by the function variable method

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Abstract

The method developed in this work uses an alternative functional variable method to construct exact travelling solutions to a class of nonlinear wave equations. It is shown that it is possible to obtain by a direct treatment the general solutions to some important nonlinear model equations which arise in a wide variety of physical problems. We have also presented some interesting typical examples to illustrate the application of this method.

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