

On the functional variable method for finding exact solutions to a class of wave equations

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Abstract

We present an alternative functional variable method or briefly called FVM (in short) to analyze a class of wave equations, consisting in construction of exact travelling solutions. Some important nonlinear model equations which arise in a wide variety of physical problems have been presented as testbed to show the application of this method.

Keywords Nonlinear partial differential equation; Travelling wave solutions; Nonlinear

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