

## *Explicit Solutions Of Nonlinear Wave Equation Systems*

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**Explicit Solutions Of Nonlinear Wave**

We apply the  $(G'/G)$ -expansion method to solve two systems of nonlinear differential equations and construct traveling wave solutions expressed in terms of hyperbolic functions, trigonometric ...

**(PDF) Explicit solutions of nonlinear wave equation systems**

Explicit solutions of nonlinear wave equation systems Ahmet Bekir † , Burcu Ayhan, and M. Naci Ozer Mathematics and Computer Science Department, Eskisehir Osmangazi University, Eskisehir, Turkey

**Explicit solutions of nonlinear wave equation systems**

In this article we have seen that three types of explicit travelling wave solutions of the  $(2 + 1)$ -dimensional dispersive long wave equation are successfully found out by using the  $G'/G$ -expansion method. The solutions of these nonlinear evolution equations have many potential applications in physics.

**Explicit solutions of nonlinear  $(2 + 1)$ -dimensional ...**

First of all, some technical tools are developed. Then the author studies explicit traveling wave solutions to nonlinear dispersive wave equations, nonlinear dissipative dispersive wave equations, nonlinear convection equations, nonlinear reaction diffusion equations and nonlinear hyperbolic equations, respectively.

**Explicit traveling wave solutions to nonlinear evolution ...**

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**Explicit traveling wave solutions to nonlinear evolution ...**

a new similarity reduction is presented by means of the direct reduction method due to Clark and Kruskal and the solutions for the equations with  $n \geq 3$  are given by using the new similarity reduction. By using similarity reductions and the ingenious construction of a proper auxiliary equation, some new special solutions such as one real solitary wave solution and one singular solitary wave ...

**New explicit solutions of the nonlinear wave equations ...**

nonlinear Klein Gordon equation, the discrete nonlinear Schrodinger equation with a saturable nonlinearity and the quintic discrete nonlinear Schrodinger equation. The proposed method is more effective and powerful to obtain many rational traveling wave solutions for nonlinear differential difference equations.

**Explicit Traveling Wave Solutions for Nonlinear ...**

phenomenon modelled by nonlinear partial differential equations. Therefore solutions of these partial differential equations will help us to much more understanding these physical processes. In the last decades, many methods proposed for obtaining explicit traveling wave solutions of nonlinear evolution equations such as the rational

**Explicit Travelling Wave Solutions of Two Nonlinear ...**

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Exact and explicit traveling wave solutions to two nonlinear evolution equations which describe incompressible viscoelastic Kelvin-Voigt fluid Md. Mamunur Roshid\*, Harun-Or Roshid Department of Mathematics, Pabna University of Science and Technology, Pabna-6600, Bangladesh

**Exact and explicit traveling wave solutions to two ...**

Semi-explicit solutions to the water-wave dispersion relation and their role in the non-linear Hamiltonian coupled-mode theory

#### **Semi-explicit solutions to the water-wave dispersion ...**

wave solution. We then find the solution of the ODE in tanh form and with the substitution using original variables we obtain the explicit solution of the equation. This paper is outlined as follows: Section 2 describes the linear Black-Scholes equation and Section 3 gives the modified form of the nonlinear equation.

#### **Explicit Solution of a Nonlinear Black-Scholes Partial Di ...**

ORIGINAL ARTICLE Explicit solutions of nonlinear  $(2 + 1)$ -dimensional dispersive long wave equation M. Eslami, A. Neyrame \*, M. Ebrahimi Department of Mathematics, Gonbad Kavous Branch, Islamic Azad University, Gonbad Kavous Branch, Iran

#### **Explicit solutions of nonlinear $(2+1)$ -dimensional ...**

The KP equation is most important to explain the different type of nonlinear wave and soliton wave in fluid dynamics and plasma physics. Chen has studied this equation and find out the explicit solitary wave solution. Let us consider the  $(3 + 1)$  dimensional Kadomtsev-Petviashvili equation in the following form

#### **Exact and explicit traveling wave solutions to two ...**

Solutions of nonlinear evolution and wave equations 523 Incidentally, the hodograph transformations (5) and (8) also cause decoupling of the nonlinearity from dispersion. Inversion of the hodograph transformations clearly make the explicit solutions of (6) and (7) implicit.

## **Explicit Solutions Of Nonlinear Wave Equation Systems**

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