

symmetry analysis and exact pdf

symmetry analysis and exact explicit solutions 1371 which is obviously an infinite dimensional Lie algebra of symmetries, where the dot over the function means its derivative with respect to time.

Symmetry Analysis and Exact Explicit Solutions for

the KdV equation by using Lie symmetry analysis and the dynamical system method [8]. In the present paper, we will investigate the vector fields, symmetry reductions, and exact solutions to the Sawada-Kotera equation

Lie symmetry analysis and exact solutions of the Sawada

The main purpose of this work is to study the symmetry analysis, bifurcation and exact solutions of (1.2). The similarity reductions and exact solutions are obtained based on the optimal system and power series method. Steady bifurcation and

SYMMETRY ANALYSIS, BIFURCATION AND EXACT SOLUTIONS OF

Analysis of the Galilei and Poincare Groups and Reduction of Nonlinear Equations (W.I.Fushchich, L.F. Barannik and A.F. Barannik, Kiev: Naukova Dumka, 1991), Nonlinear Spin or Equations: Symmetry and Exact Solutions (W.I.Fushchich)

Symmetry Analysis and Exact Solutions of Equations of

Lie Symmetry Analysis and Exact Solutions of the Sharma-Tasso-Olevers Equation Youwei Zhang, Abstract—In present paper, the Sharma-Tasso-Olevers (STO) equation is considered by the Lie symmetry analysis.

Lie Symmetry Analysis and Exact Solutions of the Sharma

PDF | Based on the symbolic computation system Maple, the infinite-dimensional symmetry group of the (2+1)-dimensional Sawada-Kotera equation is found by the classical Lie group method and the ...

(PDF) Symmetry Analysis and Exact Solutions of (2+1

Symmetry Analysis And Exact Solutions of Semi-linear Heat Equation in Multi-Dimensions Sajid Ali National University of Sciences and Technology, Islamabad, Pakistan

Symmetry Analysis And Exact Solutions of Semi-linear Heat

A symmetry analysis and a semi analytical exact model are proposed to describe the mechanical, piezoelectric and electronic properties of strained wurtzite quantum nanostructures (QNs) with axial symmetry.

Symmetry analysis and exact model for the elastic

Download PDF Download. Export. Advanced ... The main purpose of this paper is to investigate the vector fields, the symmetry reductions and exact solutions to Eq. by means of the combination of Lie symmetry analysis, , , , and the Riccati equation method, . The rest of this paper is ...

Lie symmetry analysis and exact explicit solutions of

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the integrable Vakhnenko equation (VE), which Vakhnenko and Parkes proved to be equivalent to

SYMMETRY ANALYSIS AND EXACT SOLUTIONS OF SOME OSTROVSKY

dimensional Sawada-Kotera equation is found by the classical Lie group method and the characterization of the group properties is given. The symmetry groups are used to perform the symmetry ...

Symmetry Analysis and Exact Solutions of (2+1)-Dimensional

Furthermore, the exact analytic solutions are provided by the transformation technique and generalized power series method, which has shown that the combination of Lie symmetry analysis and the generalized power series method is a feasible approach to dealing with exact solutions to the variable-coefficients PDEs.

Symmetry Analysis and Exact Solutions to the Space

The aim of this paper is to carry out Lie symmetry analysis of the quasigeostrophic two-layer model. There already exist a number of papers dealing with symmetries and exact solutions of the simpler barotropic vorticity equations 4,5,15-17 4.

Lie symmetry analysis and exact solutions of the

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