Accepted Manuscript

Exact solutions of nonlinear diffusion-convection-reaction equation: A Lie symmetry analysis approach

Motlatsi Molati, Hideki Murakawa

 PII:
 S1007-5704(18)30207-7

 DOI:
 10.1016/j.cnsns.2018.06.024

 Reference:
 CNSNS 4566

To appear in: Communications in Nonlinear Science and Numerical Simulation

Received date:	28 November 2017
Revised date:	30 March 2018
Accepted date:	18 June 2018

Please cite this article as: Motlatsi Molati, Hideki Murakawa, Exact solutions of nonlinear diffusionconvection-reaction equation: A Lie symmetry analysis approach, *Communications in Nonlinear Science and Numerical Simulation* (2018), doi: 10.1016/j.cnsns.2018.06.024

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

- A phenomenon of transport in porous medium and fast diffusion is considered.
- A model equation incorporates nonlinear diffusion, convection and reaction.
- The model equation is studied from Lie symmetry analysis view point.
- Some exact solutions are obtained.

Download English Version:

https://daneshyari.com/en/article/11003759

Download Persian Version:

https://daneshyari.com/article/11003759

Daneshyari.com