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The (G'/G) -expansion method and the $\exp(-\phi(\xi))$ -expansion method with applications to a higher order dispersive nonlinear Schrödinger equation

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In this article, we study the connection between the (G'/G) -expansion method and the $\exp(-\phi(\xi))$ -expansion method with the aid of a suitable transformation. We employ these two methods to derive families of exact solutions for a higher order dispersive nonlinear Schrödinger equation describing the propagation of the optical pulse in a medium. Comparison between these two methods is presented. We show that the two methods as well as their results are equivalent.

Key words: Higher order dispersive nonlinear Schrödinger equation, The (G'/G) -expansion method, the $\exp(-\phi(\xi))$ -expansion method, exact solutions.

INTRODUCTION

Exact solutions of nonlinear partial differential equations (PDEs) are of fundamental and important in applied science because they are widely employed to explain some of the nonlinear phenomena and dynamical processes existed in nature world. Nonlinear wave phenomena appear in various scientific and engineering fields, such as fluid mechanics, plasma physics, optical fibers, biology, solid state physics and so on. In the recent decades, several powerful methods for finding the exact solutions of the nonlinear PDEs have been

proposed such as the tanh-method and its various extension (Parkes and Duffy, 1996; Fan, 2000; Yan, 2001), the Jacobi-elliptic function expansion method (Liu et al., 2001; Yan, 2003; Fu and Liu, 2003), the homogeneous balance method (Wang, 1995, 1996; Wang et al., 1996; Zayed and Amous, 2012), the F-expansion method and its extension (Wang and Zhou, 2003; Zhou et al., 2004; Wang and Li, 2005a, b; Zhang et al., 2006; Wang et al., 2007), the sub-ODE expansion method (Li and Wang, 2007; Wang et al., 2007; Yomba,

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Applications Of The Expansion Method

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nanotechnology have led to a surge of interest in nano and micro devices and systems such as nanotubes nano microstructures and nanofiber fabrication processes This progress has ushered in a new era of miniaturized nanodevices The study of nonlinear vibration and instability represents an exciting frontier in both nanotechnology and nonlinear dynamics highlighting the importance of controlling instability in the design of nano micro devices and systems This Research Topic celebrates the fascinating physical principles that underpin the dynamical properties of these devices and explores the emerging advanced applications in the field Understanding these principles requires multidisciplinary collaboration involving fields such as nanotechnology physics textile engineering material science electro mechanical engineering communication science medical science and mathematics Insights into the physical laws governing the operation of nano micro devices including energy conservation and nanophysics are crucial for developing optimal designs and control strategies thereby promoting advanced applications This Research Topic aims to delve into the intricate dynamics of nano and micro devices and systems with a particular focus on nonlinear vibration and instability The main objectives include understanding the mathematical and physical principles that govern these phenomena developing optimal control strategies and exploring advanced applications Specific questions to be addressed include How can mathematical models be used to predict and control instability in nano micro devices What are the optimal design parameters for minimizing vibration in these systems How can advanced analytical and numerical methods be employed to solve complex problems in this field To gather further insights into the physics of nano micro devices and systems we welcome articles addressing but not limited to the following themes Mathematical and fractal fractional models for vibration instability in nano micro devices and nanofiber fabrication systems Optimal control of systems governed by nonlinear vibration equations with fractal or fractional derivatives Vibration analysis of carbon nanotubes Investigation into pull in instability of N MEMS systems Study of periodic properties of N MEMS systems Nonlinear vibration in electrospinning or bubble electrospinning processes Vibration analysis of nanofiber reinforced hierarchical concrete Vibration and control mechanisms in 3D printing systems Development of energy harvesting devices and wearable sensors Application of big data machine learning and AI in nonlinear vibration and active control Advances in analytical and numerical methods for addressing these challenges

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