Optical soliton solutions for the generalized Kudryashov's equation of propagation pulse in optical fiber with power nonlinearities by three integration algorithms

Elsayed Zayed¹ and Mohamed Alngar¹

¹Zagazig University Faculty of Science

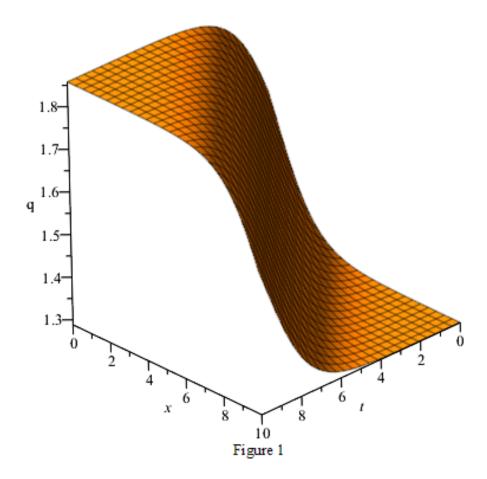
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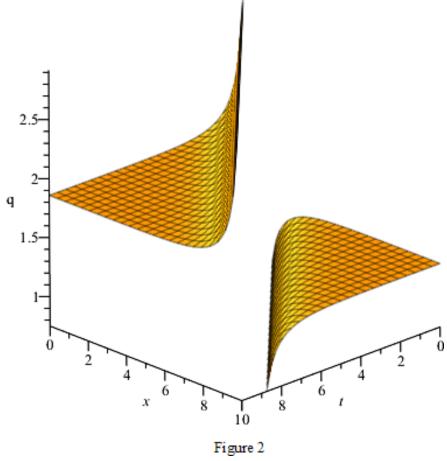
Abstract

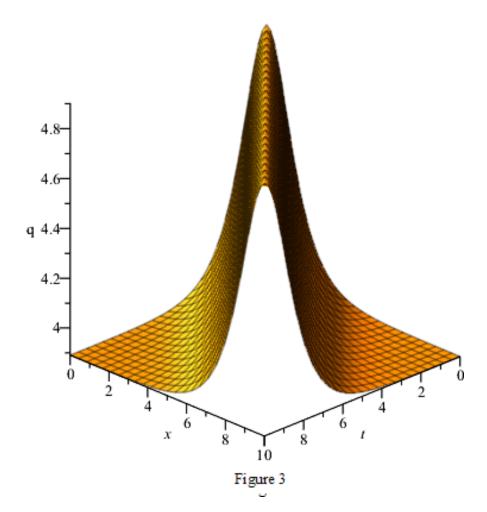
In this paper, we employ three integration algorithms namely, the well known Kudryashove method, the new Kudryashov method and the unified Riccati equation expansion method to extract optical soliton solutions for the generalized Kudryashov's equation with power nonlinearities. Straddled soliton, bright solitons, dark solitons and singular solitons have been found

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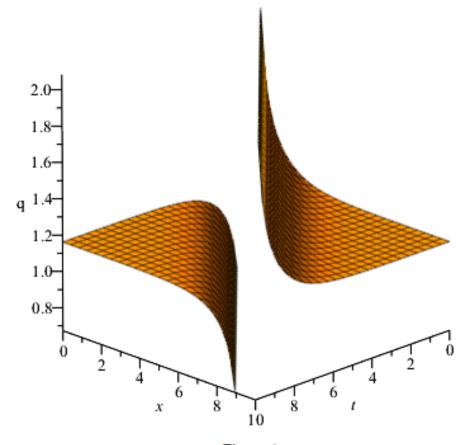


Figure 4

