

Special Issue on "New Analytical Methods for Nonlinear Equations" for
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Guest-Editors : J.-H. He, M. Dehghan and A.M. Wazwaz

Nonlinear phenomena appear everywhere in our daily life and our scientific works, and today nonlinear science represents one of the most challenging, promising, and romantic fields of research in science and technology. It is still very difficult to solve nonlinear problems effectively, however, either numerically or analytically, and even more difficult to establish models for real-world nonlinear problems. Many assumptions have to be made artificially or unnecessarily to make practical engineering problems solvable, leading to the loss of important information. Now things have changed, for we have some new mathematical tools and mathematical software, which increase the tantalizing possibility of analytically seeking the approximate solutions to more complex problems and revealing various features of series of obtained solutions.

One of the chief aims of this special issue is to establish more reasonable nonlinear models for practical engineering problems using mathematical concepts, such as fractal, fractional derivation, stochastic analysis, difference-differential concept, particular interest will be placed on contributions concerned with the application of new analytical methods to real-life problems to reveal hidden pearls in nonlinear phenomena.

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