

عنوان مقاله:

Nearly solitons for a perturbed higher-order nonlinear Schrödinger equation

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خلاصه مقاله:

In the present paper we develop the soliton perturbation theory to find nearly soliton solutions for a perturbed higher-order nonlinear Schrödinger (PHNLS) equation. An integral expression for the first-order correction to the wave is found and to avoid the secular terms, the dynamical systems for the soliton parameters are found.

کلمات کلیدی:

higher-order Schrödinger equation, IST, soliton perturbation theory, squared eigenfunctions

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