Direct Approach to Study of Soliton Perturbations of Defocusing Nonlinear Schrödinger Equation

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Abstract: A direct approach in the study of soliton perturbations has been developed, based on the method of separation of variables in our previous papers . In this paper we use it to deal with the nonlinear Schrödinger equation under the action of perturbations. Our results differ from those obtained in previous work.

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