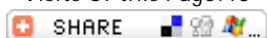- MainPage
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Research Details :

Research Title	: *A Highly Accurate Finite Difference Method for Coupled Nonlinear Schr?dinger Equation* *A Highly Accurate Finite Difference Method for Coupled Nonlinear Schr?dinger Equation*
Descriptipn	: The coupled nonlinear Schr?dinger equation models several interesting physical phenomena. It presents a model equation for optical fiber with linear birefringence. In this article, we write a finite difference scheme to solve this equation. The method is fourth-order in space and second-order in time. It is unconditionally stable and extrapolation is used in the temporal direction and this makes the method fourth-order in the two directions, space and time. Many numerical tests have been conducted to display the robustness of the scheme.
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