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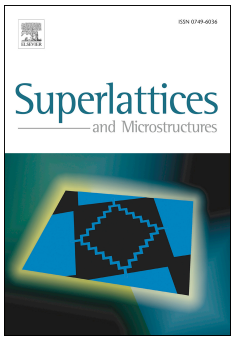

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OPTICAL SOLITONS WITH DWDM TECHNOLOGY AND FOUR-WAVE MIXING BY EXTENDED TRIAL EQUATION METHOD

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Abstract

This paper obtains bright and singular optical soliton solutions to DWDM system in presence of four-wave mixing. The extended trial function scheme is adopted. The two types of nonlinear media studied are Kerr law and parabolic law. There are other types of waves that appears as a byproduct to this scheme.

Keywords: solitons, DWDM; four-wave mixing; integrability; extended trial equation.

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