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Modulation of localized solutions in quadratic-cubic nonlinear Schrödinger equation with inhomogeneous coefficients

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**Highlights**

- Modulation of localized solutions in an inhomogeneous nonlinear medium is studied.
- The system is described by a nonlinear Schrödinger equation.
- The modulation can be able to stabilize an unstable solution and *vice-versa*.
- The frequency of modulation is an important parameter to control the stability.

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