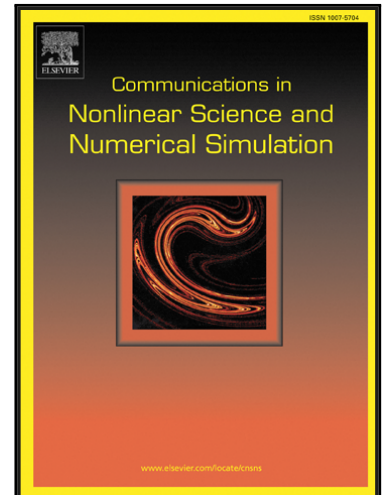


Accepted Manuscript

Modulational instability and discrete breathers in a nonlinear helicoidal lattice model

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PII: S1007-5704(17)30407-0
DOI: [10.1016/j.cnsns.2017.11.017](https://doi.org/10.1016/j.cnsns.2017.11.017)
Reference: CNSNS 4374



To appear in: *Communications in Nonlinear Science and Numerical Simulation*

Received date: 10 April 2017
Revised date: 16 August 2017
Accepted date: 23 November 2017

Please cite this article as: Jinmin Ding , Tianle Wu , Xia Chang , Bing Tang , Modulational instability and discrete breathers in a nonlinear helicoidal lattice model, *Communications in Nonlinear Science and Numerical Simulation* (2017), doi: [10.1016/j.cnsns.2017.11.017](https://doi.org/10.1016/j.cnsns.2017.11.017)

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Highlights

- The discrete modulational instability analysis of a helicoidal lattice with the third-neighbor coupling is performed systematically .
- The analytical solutions of discrete breather modes are obtained.
- The third-neighbor coupling plays a significant role in the properties of modulational instability and discrete breathers in the helicoidal lattice.

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