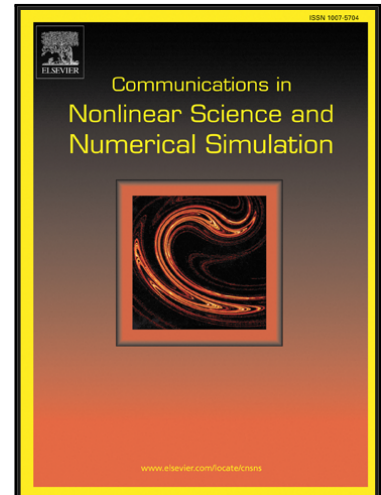


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On the incomplete recurrence of modulationally unstable deep-water surface gravity waves

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Highlights

- The modulational instability within the full potential Euler equations for water waves is not
- recurrent in the strict sense
- The physical mechanisms responsible for the incomplete recurrence are identified
- The modulation-demodulation unimodal process is quasiperiodic; the wave demodulation is
- almost complete
- The stages of modulation or demodulation are fully determined by the dynamic phase of the
- unstable wave quartet

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