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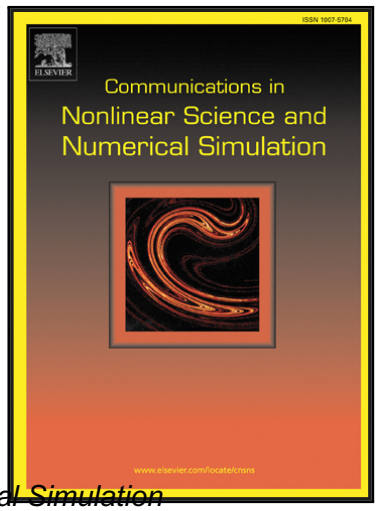

The interaction solitons for the complex short pulse equation

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Highlights

- the N-fold Darboux transformation on the matrix for Lax pair of the complex short pulse equation are given in terms of the quasideterminant.
- the N-fold Darboux transformation on scalar solutions for the complex short pulse equation are given in terms of the determinant.
- multiply smooth soliton, loop soliton, cuspon soliton, breather soliton and rogue wave solutions of the complex short pulse equation are given explicitly by different seed solutions.

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