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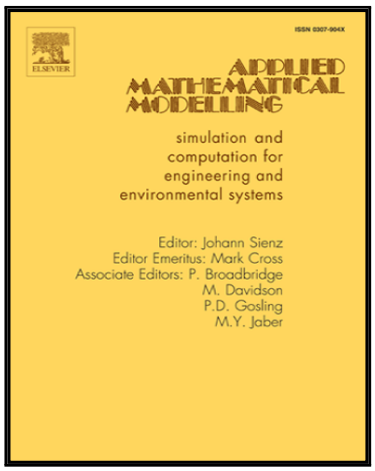

Free vibration analysis of a structural system with a pair of irrational nonlinearities

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Highlights

- To solve the structural system with a pair of irrational nonlinearities.
- To provide a simple way of deriving accurate analytical approximate solutions.
- To express the irrational restoring force function to a rational representation.
- To accelerate the convergence of the sequences using the rational representation.

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