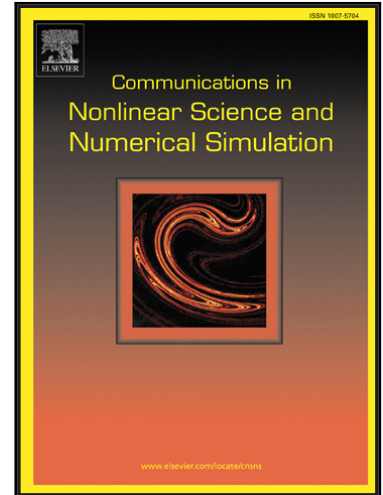


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The modeling of the fractional-order shafting system for a water jet mixed-flow pump during the startup process

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Highlights

- A fractional-order mathematical model of a water jet mixed-flow pump is established.
- This paper focus on the startup process of a water jet mixed-flow pump.
- Nonlinear dynamics are studied including fractional bifurcation.
- The effect of the changing of fractional-order is studied.
- The physical experiments are firstly proposed for the fractional order model.

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