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Steady-state response analysis of cracked rotors with uncertain-but-bounded parameters using a polynomial surrogate method

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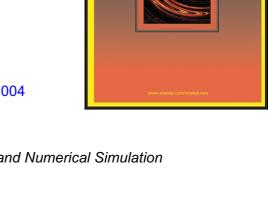
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Highlights

- A polynomial surrogate for the cracked rotor system with UBB parameters is constructed.
- The FE rotor analysis model is treated as a black box and only runs at sample points.
- Calculation accuracy of the surrogate is validated by comparisons with other methods.
- The surrogate method can deal with a large number of uncertain quantities with efficiency.



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