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Torsional wave in a circular micro-tube with clogging attached to the inner surface

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Highlights

- The clogging modeled attached to the micro-tube inner surface as an elastic membrane.
- Analytical derivation for the torsional wave travelling in the micro-tube with the clogging.
- Solving the governing equation for the lowest branch of wave is difficult via standard Bessel function.
- A power series solution is developed for the first branch of the torsional wave.

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