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Longitudinal and transverse wave propagation analysis of stationary and axially moving carbon nanotubes conveying nano-fluid

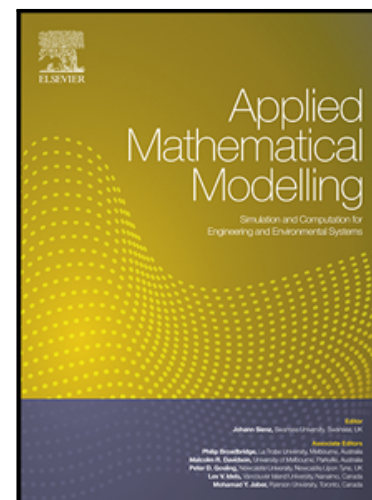
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Highlights

- Longitudinal and lateral wave propagation of the static and dynamic CNT are studied.
- The nano-size effect and velocity of the both fluid and structure are investigated.
- The predictable processes and phenomena are occurred in both wave propagation.
- Velocity of CNT play more effective role than the fluid in both wave propagation.
- The moving CNT without fluid has the highest natural frequency for any wavenumber.

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