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Inverse scattering problem of reconstruction of an embedded micro-/nano-size scatterer within couple stress theory with micro inertia

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Highlights

- Inverse scattering in the context of couple stress theory
- Reconstruction of the size and location of micro/nano- fiber
- SH-wave scattered by a micro/nano-fiber using couple stress theory
- Use of micro inertia term to capture the physically realistic dispersion relations
- Effect of micro inertia term in higher frequencies

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