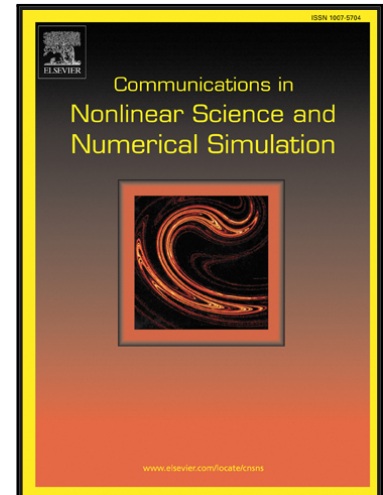


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An asymptotic perturbation solution for a linear oscillator of free damped vibrations in fractal medium described by local fractional derivatives

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Highlights

- This article proposes and applies a certain non-differentiable asymptotic approximation theory for the first time.
- The equation of free damped vibrations with local fractional derivative is first presented.
- The asymptotic perturbation solution involving non-differentiable terms is also obtained.

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