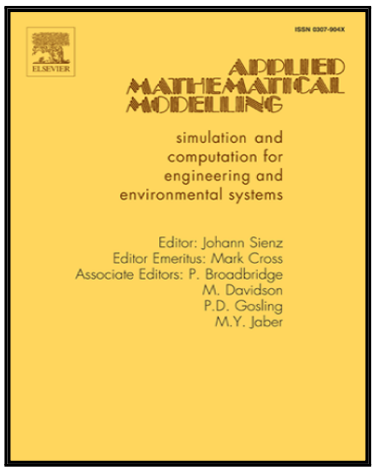

An efficient analytical technique for fractional model of vibration equation

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Highlights

- We consider a fractional model of vibration equation for large membranes.
- The *q*-HATM and LDM are applied to obtain the solution of the problem.
- The results derived are shown graphically.
- The results obtained by *q*-HATM and LDM are in excellent agreement.