

## Accepted Manuscript

An efficient analytical technique for fractional model of vibration equation

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PII: S0307-904X(16)30649-7  
DOI: [10.1016/j.apm.2016.12.008](https://doi.org/10.1016/j.apm.2016.12.008)  
Reference: APM 11470



To appear in: *Applied Mathematical Modelling*

Received date: 16 July 2016  
Revised date: 31 October 2016  
Accepted date: 7 December 2016

Please cite this article as: H.M. Srivastava , Devendra Kumar , Jagdev Singh , An efficient analytical technique for fractional model of vibration equation, *Applied Mathematical Modelling* (2016), doi: [10.1016/j.apm.2016.12.008](https://doi.org/10.1016/j.apm.2016.12.008)

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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.

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