

Review Form 3

Journal Name:	Asian Research Journal of Mathematics
Manuscript Number:	Ms_ARJOM_129621
Title of the Manuscript:	Dynamic Analysis of an Exponentially Decaying Foundation on the Response of Non-Uniform Damped Rayleigh Beam under Harmonic Moving Load with General Boundary Conditions
Type of the Article	

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PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Is the manuscript scientifically, correct? Please write here.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>After careful review, the manuscript can be accepted in revised form, provided the following points are addressed:</p> <ol style="list-style-type: none"> 1. The abstract should clearly articulate the motivation behind this research. It should explain why the study is significant and what gaps it aims to fill in the current literature. 2. The paper should clearly define the fractional thermoelasticity model, specifically in the context of thermal shock and traction-free conditions. A thorough explanation will enhance reader comprehension. 3. The assumptions and constraints related to the constitutive coefficients need to be explained in detail. Clarifying these points will strengthen the theoretical framework of the study. 4. The authors should elaborate on how this study advances understanding in the field of qualitative analysis of heat conduction models. Specific contributions should be highlighted. 5. The manuscript should include examples or figures that illustrate the theoretical findings. These visual aids should be helpful in conveying complex concepts and enhancing the reader's understanding. 6. The real applications of the considered problem in various industries need to be discussed. Including realistic images related to these applications would provide valuable context and relevance to the research. 7. The authors should discuss the superiority of the proposed model compared to existing models in the literature. Highlighting unique features or advantages will strengthen the manuscript's impact. 8. The literature review could be improved by adding relevant references. Suggested citations include: <ul style="list-style-type: none"> o ""The size-dependent thermoelastic vibrations of nanobeams subjected to harmonic excitation and rectified sine wave heating." <i>Mathematics</i> 8.7 (2020): 1128. o ""Modelling of vibrations of rotating nanoscale beams surrounded by a magnetic field and subjected to a harmonic thermal field using a statespace approach." <i>The European Physical Journal Plus</i> 136.3 (2021): 123.. o ""Temperature-dependent physical characteristics and varying heat effects on nonlocal rotating nanobeams due to dynamic load." (2020).. o "Abouelregal, Ahmed E., Marin Marin, and Sameh S. Askar. "Analysis of the magneto-thermoelastic vibrations of rotating Euler–Bernoulli nanobeams using the nonlocal elasticity model." <i>Boundary Value Problems</i> 2023.1 (2023): 21. o ""Thermoelastic response of nanobeam resonators subjected to exponential decaying time varying load." <i>Journal of Theoretical and Applied Mechanics</i> 55.3 (2017): 937-948.. o "Abouelregal, Ahmed E., and Ashraf M. Zenkour. "Thermoelastic problem of an axially moving microbeam subjected to an external transverse excitation." <i>Journal of Theoretical and Applied Mechanics</i> 53.1 (2015): 167-178.. <p>Given the points outlined above, the paper requires modifications before it can be recommended for publication in the Asian Research Journal of Mathematics</p>	

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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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