

Review Form2

Book Name:	Mathematics and Computer Science - Contemporary Developments
Manuscript Number:	Ms_BPR_2138
Title of the Manuscript:	Analytical Results of the Motion of Oscillating Dumbbell in a Viscous Fluid
Type of the Article	Book chapter

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.	Understanding the dynamics of such systems is crucial for applications in various fields, including biomechanics, material science, and fluid dynamics. The analytical approach used in the study offers a detailed and precise understanding of the motion characteristics, which can help improve the design and optimization of systems involving oscillatory motion in viscous environments. I appreciate the manuscript for its rigorous methodology and the potential it has to advance our knowledge in this area.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title "Analytical Results of the Motion of Oscillating Dumbbell in a Viscous Fluid" is clear and descriptive, accurately reflecting the content of the manuscript. However, if authors prefer a more concise and engaging title, thay might consider: "Oscillating Dumbbell Dynamics in Viscous Fluids: Analytical Insights"	
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.	This sentence in the abstract is too long "The oscillating dumbbell consists of one conductingsphere and assumed to be actively in motion under the action of an external oscillator field while the other is non-conducting sphere. As result, the oscillating dumbbell moves due to the induced flow oscillation of the surrounding fluid." - need to be reframed Grammer errors to be rectified in the abstract	
Are subsections and structure of the manuscript appropriate?	Yes	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimumof 3-4 sentences may be required for this part.	The manuscript demonstrates scientific correctness through its rigorous analytical approach to understanding the motion of an oscillating dumbbell in a viscous fluid. The methodology is well-defined and adheres to established principles in fluid dynamics, providing a robust framework for analyzing the system's behavior. The results are presented with clarity and supported by comprehensive mathematical derivations, which enhances the credibility of the findings. Additionally, the manuscript appropriately addresses relevant theoretical and practical implications, ensuring that its conclusions are technically sound and contribute valuable insights to the field.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Recent prblications relevant to the topic will add more waitage to the article	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	No Improving the language quality will make the manuscript more effective in communicating its scientific contributions and ensure it meets the standards of scholarly communication.	
Optional/General comments	1. Language and Style: Grammar and Syntax: Correct grammatical errors, such as incorrect verb tenses or subject-verb agreement issues. Ensure proper punctuation and sentence structure throughout the manuscript. Clarity: Revise sentences that are unclear or awkwardly phrased to improve readability. Formal Tone: Ensure the language is formal and consistent with academic standards. Avoid colloquial expressions and ensure technical terms are used appropriately. 2. Content and Structure: Organization: Check if the manuscript is logically organized with a clear flow of ideas. Ensure that each section transitions smoothly into the next. Consistency: Maintain consistency in terminology, notation, and formatting throughout the manuscript. This includes figures, tables, and references. Completeness: Verify that all relevant aspects of the research are covered and that conclusions are well-supported by the data and analysis. 3. References and Citations: Up-to-Date References: Ensure that the references are current and relevant to the study. Add any recent or important papers that are missing. Citation Style: Verify that all citations and references are formatted according to the journal's guidelines or standard academic practices. 4. Technical Accuracy: Methodology: Review the methodology for accuracy and completeness. Ensure that all steps are clearly described and reproducible. 5. Ethical Considerations: Originality: Ensure that all content is original or properly cited to avoid issues of self-plagiarism or plagiarism. By addressing these points, the manuscript can be significantly improved in terms of clarity, quality, and scholarly rigor.	

PART 2:

	Reviewer's comment	Author's comment(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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

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