



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_24446
Title of the Manuscript:	The behavior of two coupled mechanical oscillators in non-linear fields and the possibility of obtaining controlled halts
Type of the Article	Original research papers

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	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)
<u>Compulsory</u> REVISION comments	- Equation (1) and (2) are not correct for computation of forces. - Equations are not written in correct format. - Equation (3) is wrong. - Equation (11) is wrong. - Equation (13) wrong. - Wrong correlation for eqn. (15) and eqn. (16) - Eqn. (17) is wrong. - Lack of correlation in (12) and (36) - Eqn. (52) description is wrong. - Eqn. (43) is not correct. - No new work and complexities created lack of correct approach with lemmas, theorem and references.	Dear Sir! Thank-you for your feedback and comment. On those highlighted by you, we can mention the following: 1. Equations 1 and 2 are correct for the forces calculation. In this respect will indicate the scientific paper (Temple H. Fay and Sarah Duncan Graham, "Coupled spring equations", University of Southern Mississippi, int. j. math. educ. sci. technol., 2003, vol. 34, no. 1, 65–79.), mentioned in the bibliography of the first article [2] , based on which it is built this second article. 2. We will rewrite the equations in the correct format required in the journal template. 3.4.5. In drawing the equations 3, 11,13 we took into account the accepted and published form as an Article (The Motion



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		Equation of a Spring-Magnet-Mass System Placed in Nonlinear Magnetic Field. An Analytical Solution of Elliptic Sine form Functions), shown here as reference [2] , where the mentioned equations forms were quite justified. 6. The equations 15 and 16 are actually matrices A and B , which are similar matrices . The resemblance of the two matrices is obvious from a simple calculation . 7. The equations (17) can be immediately verified by direct multiplication and calculation of those two determinants. The relationship is verified there. 8. The relations (12) and (36) are not equivalent, so there is no correlation between them. Actually, there are two different forms of the same system of differential equations , which is written in two different vector bases . The correlation will be seen later in performing the calculation. 9. The equations (37) and (52) are not wrong, but they are a customization of the classic model for solving linear differential
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		classical model equations in which were revealed the shapes for the own pulsations of those two components. 10. Equation (43) is correct. It has been solved in the same form, in the article described in reference [2] , developed by the authors and described above. 11. The whole article in its current form is the result of a work that implied a whole year of testing, being a mathematical confirmation of the experimental model , also succeeded . The experimental result is beyond the scope of this paper and the phenomenon was used to build a special engine Thank you for your suggestions. Best regards!
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		