



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_24725
Title of the Manuscript:	Harmonic solution of a weakly non-linear second order differential equation governed the motion of a TM-AFM cantilever
Type of the Article	Original Research Article

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.

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PART 1: Review Comments

	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>
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments	In this paper, an analysis of harmonic solution for a weakly non-linear second order differential equation which governed the dynamic behavior of a micro cantilever based on Tapping mode Atomic force microscope is presented. The work is in general favourable. Some issues are: 1)- The language needs to be improved. 2)- For harmonic physical events as governed by the model (1), there is a strong solution method based on homotopy, which should be mentioned as presented in the articles "An effective approach for approximate analytical solutions of the damped duffing equation. Phys Scripta 2012;86(1)", "An optimal analytic approximate solution for the limit cycle of duffing-van der pol equation. J Appl Mech Trans ASME 2011;78(2)" and "Accurate analytic approximation to the nonlinear pendulum problem. Phys Scripta 2011;84(1)".	We agree with your opinion, so we will use the homotopy analysis method [Liao, 1995] and homotopy perturbation technique [He, 1999] in our future work.
<u>Optional/General</u> comments		