



SDI Review Form 1.6

PART 1:

Journal Name:	<u>British Journal of Mathematics & Computer Science</u>
Manuscript Number:	MS: 2013_BJMCS_3116
Title of the Manuscript:	A homotopy continuation approach for testing a basic analog circuit.

General guideline for Peer Review process is available in this link:

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

- This form has total 9 parts. Kindly note that you should use all the parts of this review form.



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PART 2: 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	Continuation techniques has been often applied in simulation of nonlinear behaviour of electrical circuits. The paper deals with a homotopy based approach to test a basic analog circuit. Authors define a homotopy having the nonlinear vector function $f(x)$ (of size 14) as an equilibrium function. The paper is a collection of numerical examples showing the effectiveness of the proposed approach. I think that the paper is interesting and useful for people working on this research area. Some numerical tests are shown and the results are encouraging.	Thank you for your comments, appreciate your careful review.
<u>Minor</u> REVISION comments	In my opinion equation (2.1) at page 102 is the Homotopy function $H(x, f(x))$ instead of $f(x)$. I think there is a misprint. Page 102 Figure 1: A is the "Starting Point" of homotopy I think that more details on the tools used for the numerical test should be welcome in order to be able to reproduce the experiments. Moreover I think that something about the computational complexity of the method should be written.	The indicated remarks were taken into account to improve the contents of the article. The meaning of "A" is explained in the document. Also, a note about the employed numerical method for the simulations is included.
<u>Optional/General</u> comments		