



SDI Review Form 1.6

Journal Name:	Advances in Research
Manuscript Number:	Ms_AIR_26794
Title of the Manuscript:	A Computational Method for the Solution of Electric Circuit Problems
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.

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)
Compulsory REVISION comments	<p>The examples addressed in Section 5 are, in truth, the same example (a resistor-inductor (RL) series association, driven by a voltage source). This is the most simple dynamic electrical circuit (a purely academic example), only used to explain students transients. Actually, equations (22) and (33) can be obtained from many other physical systems (and not only from an RL circuit).</p> <p>It must be noted that the dynamic behaviour of an electrical or electronic circuit is, in general, modelled by a <u>nonlinear system of differential algebraic equations (DAE)</u> involving electric voltages, currents and charges, and magnetic fluxes. Unfortunately, the method proposed in the paper is conceived to solve problems of the form of (1). The formulation of (1), which is merely an ordinary differential equation (ODE), is far from representing the mathematical model of an electrical/electronic circuit, composed by several nodes, branches, meshes, paths and loops, and containing nonlinear devices (e.g., diodes, transistors, etc.). Taking this into account, <u>I strongly recommend the authors to change the title of the paper</u> (e.g. removing the sentence "electric circuit problems").</p> <p>Please clarify the Plagiarism:</p> <p>Integration of First-order Modeled Differential Equations Using a Quarter-step Method, J. Sunday, D. Yusuf and J. N.</p>	<p>A highly computational method has been developed and to the best of our knowledge it has been able to solve electric circuit problems of the form (1).</p>



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	Andest, Department of Mathematics, Adamawa State University, Mubi, Nigeria. Advances in Research, ISSN: 2348-0394, Vol.: 7, Issue.: 1 http://sciencedomain.org/abstract/14191	We totally disagree. These are two different papers. The paper quoted was published by us. In that paper, Laguerre polynomial was used to derive the quarter step method developed while in this paper Legendre polynomial was used. Even the problems solved were different. The two methods are entirely different though they have same order. Please re-check the two papers carefully again. The format may be similar but the idea of the two works are entirely different.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		