



SDI Review Form 1.6

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	Ms_PSIJ_43379
Title of the Manuscript:	(Kink; Kink; kink; Kink) and (Pulse; pulse; Pulse; pulse) Solutions of a Set of four Equations Modeled in a Nonlinear Hybrid Electrical Line with crosslink capacitor
Type of the Article	Review Paper

**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)
<b>Compulsory</b> REVISION comments		
<b>Minor</b> REVISION comments	<p>The choice of nonlinear hybrid electrical line with crosslink capacitor for our study is due to the fact that it permits the simultaneous displacement of four signals contrary to a non-coupled hybrid electrical line which permits the simultaneous displacement of two signals; let us recall that the more we will multiply the crosslink capacitor in the line, the more we will multiply the simultaneous displacement of signals in the line. In mathematical domain, the nonlinear hybrid electrical line with crosslink capacitor presented in figure 1 has permitted us in the one hand to discover in (8) a set of four nonlinear partial differential equations which have for exact solution a set of four solitary waves given in (12) and on the other hand to discover in (14) another set of four nonlinear partial differential equations which have for exact solution another set of four solitary waves given in (18). In the domain of physics in general and particularly in the domain of telecommunication, the set of four solitary waves obtained in (12) will permit the manufacturing of a new hybrid electrical line with crosslink capacitor where the flux linkage of its inductors and the charge of its capacitors vary in nonlinear manner defined in (7). In the same light, the set of four solitary waves obtained in (18) will permit the manufacturing of another hybrid electrical line with crosslink capacitor where the flux linkage of its inductors and the charge of its capacitors vary in nonlinear manner defined in (13). The set of four solitary waves obtained in (12) and in (18) prove that the quality of signals which are being displaced in the nonlinear hybrid electrical line with crosslink capacitor was ameliorated as compared to sinusoidal signals which are being displaced in hybrid electrical line with crosslink capacitor.</p> <p>The results obtained in the paper are publishable, subject to some necessary changes. The techniques used to solve the problem are standard with some novelty, and the results obtained are correct. However, there are some points need to be further clarified before its final acceptance for publication:</p> <ol style="list-style-type: none"> <li>1. The motivation on the study should be further emphasized, particularly; the main advantages of the results in the paper comparing with others should be clearly demonstrated.</li> <li>2. English should be further improved, since the paper has some spelling and grammar errors. Also the paper has some editing problems.</li> </ol>	<p>Work has been carried out to study the hybrid line using numerical simulation with the goal of better matching to a resistive load. They projected that a hybrid line made of parallel plate with nonlinear capacitors and inductors could be developed to produce solitons with frequency between 1-2GHz . The motivation on the study is to find analytically exact soliton solutions which bring best information of the system.</p> <p>Corrections have been done as recommended</p>
<b>Optional/General</b> comments		