



SDI FINAL EVALUATION FORM 1.1

PART 1:

| | |
|--------------------------|---|
| Journal Name: | PhysicalScienceInternationalJournal |
| Manuscript Number: | 2015_PSIJ_18598 |
| Title of the Manuscript: | Solitary Wave Solutions to the Strain Wave Equation in Microstructured Solids through the Modified Simple Equation Method |
| Type of Article | |

PART 2:

| FINAL EVALUATOR’S comments on revised paper (if any) | Authors’ response to final evaluator’s comments |
|---|---|
| <p>The author(s) have demonstrated a positive progress to improve their paper. The paper can be published.</p> <p>However, the referee has to state that the Love wave never represented a soliton solution (kink, antikink, dark or bell-shape). The papers given below for the authors study the Love waves and they also study the discovered additional solutions called the slow surface Zakharenko waves that already represent new soliton solutions (kink and antikink) that was not discovered by Love or somebody else. It is not right to call the Love waves as a type of solitons. Maybe the authors have another opinion concerning the Love waves. It is very interesting to read their explanations concerning the Love waves and solitons in the future. Also there is one unpublished paper that already has demonstrated the existence of soliton kinks and antikinks in the problem of the SH-wave propagation in the piezoelectromagnetic plate. The main difference is that to study layered systems , for instance, plate or layer-on-substrate problem, one has to deal with a set of equations but not with the single complicated equation leading to soliton solutions.</p> <p>[1] A.A. Zakharenko, Analytical studying the group velocity of three-partial Love (type) waves in both isotropic and anisotropic media, <i>Non-destructive Testing and Evaluation</i> 20 (4) 237 – 254 (2005); DOI: 10.1080/17417530500513665.</p> <p>[2] A.A. Zakharenko, Slow acoustic waves with the anti-plane polarization in layered systems, <i>International Journal of Modern Physics B</i> (World Scientific, Singapore) 24 (4) 515 – 536 (2010); DOI: 10.1142/S0217979210054774.</p> | <p>We are grateful to the reviewer for his constructive and instructional comments which help us to improve the article. In the revised manuscript, we have discussed shortly about the Love wave in the section “Physical interpretations of the solutions” which is highlighted by yellow color and the mentioned articles have been cited whose reference numbers are [52] and [53].</p> <p>In the revised manuscript the typographical and grammatical errors have also been corrected.</p> <p>The revised manuscript has been resubmitted to the journal. We look forward to your positive response.</p> |