



SDI Review Form 1.6

PART 2: 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	1. At least important stages of finite element method (FEM) numerical results of the chosen problem must be detailed. 2. Comparative study of FEM results with other methods need to be furnished with tabulation on figures.	
Minor REVISION comments	1. Some more recent references on comparisons are to be quoted (both on methods of solution and applications). 2. k (mm) needs to be defined or explained somewhere.	
Optional/General comments	Line no: 36: more than 100 bar of Aluminium \rightarrow why? - step size? - any other parameter involved? any other tracking or convergent on stability problem? - This may be addressed in detail.	

Hello

We would like to thank the anonymous referee for useful comments

We received a low quality document. We could not read some words in document for revising our manuscript. Up to what we read from it, we correct manuscript according to reviewer comments.

	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	<p>1- Following your suggestion, we introduce FEM for two general (but simple!) problems, one for time independent and the other for time dependent (including time domain) cases.</p> <p>2-Dear reviewer, we could not find collision of compacton and anti compacton , or separation of some perturbation from arbitrary initial shape and releasing a soliton from it for comparing to our figures. just we found collision of compacton and anti compacton in ("Numerical interactions between compactons and kovatons of the Rosenau-Pikovsky $K(\cos)$ equation " from Julio Garra'ón, Francisco Rus, Francisco R. Villatoro), which include evolution of the ripple developed after a collision between two compactons .</p> <p>But we insert some important references including other works, for example collision of 3 compactons from M.S. Ismail, T.R. Taha. or from Rosenau and . . .</p>
<u>Minor</u> REVISION comments	<p>1- Thanks for your comment, Some references added as you said. They highlighted in manuscript.</p> <p>2- We inserted the conserved quantities of $k(2, 2)$ and $k(3, 3)$ equations and the interaction condition of two compacton. We noted that plus and minus sign of $k(3, 3)$ represents compacton and anti-compacton respectively, using "A numerical study of compactons" From M.S. Ismail, T.R. Taha.</p>
<u>Optional/General</u> comments	<p>We test the large number of cases for time division and space division. It is impossible to inserting all of the cases with related results and details to the manuscript, so if you let, we omit the sentence "more than 100 hours of simulation" from it. As noted in manuscript, our simulation showed that the changing the step sizes have no desirable effect on stability of compactons.</p>

Best regards