## ReviewForm 1.7

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| JournalName: | **AsianResearchJournalofMathematics** |
| ManuscriptNumber: | **Ms_AJPAS_118598** |
| Titleof theManuscript: | **MODELINGTHEEFFECTOF A RANDOM ENVIRONMENTALPERTURBATIONON THEDATAPRECISIONIN NIGER DELTACRUDEOIL PRODUCTION USING NUMERICALMETHODS** |
| Typeof the Article | **ReviewArticle** |

**PART1:ReviewComments**

| | **Reviewer'scomment** | **Author'scomment***(ifagreedwithreviewer,correct themanuscriptandhighlightthatpartinthe manuscript.Itis mandatorythatauthorsshouldwrite his/herfeedbackhere)* |
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| **Compulsory**REVISIONcomments<br><br>**1. Isthemanuscript important forscientific community?**<br>(Please writefewsentenceson this manuscript)<br><br>**2. Isthetitleofthearticlesuitable?**<br>(Ifnotpleasesuggest analternative title)<br><br>**3. Isthe abstract ofthearticlecomprehensive?**<br><br>**4. Are subsectionsandstructureof themanuscript appropriate?**<br><br>**5. Doyou thinkthemanuscriptisscientificallycorrect?**<br><br>**6. Are the references sufficientandrecent?If you have suggestionofadditionalreferences,please mentioninthe reviewform.**<br><br>**(Apartfromabove mentioned6 points, reviewersare freetoprovide additionalsuggestions/comments)** | **Yes,thetopicis agoodsubject.**<br><br>**Yes**<br><br>**Yes**<br><br>**Yes**<br><br>**Afterchecking,Ithinkthatthemanuscriptiscorrect.**<br><br>Thegoodpapers should be added to thepaper. | |
| **Minor**REVISIONcomments<br><br>**1. Islanguage/Englishqualityofthe articlesuitableforscholarly communications?** | Generallywell-written paper, to improvethe qualityof thepaper, pleasecheckyour sentencesand/or English onemoretime. | |

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| **Optional/General**comments | Title: Unsteadyscalar reaction-diffusion problems usingfinite volume, finite element, and finite differenceapproaches<br><br>Major comments:<br>1. Thetitleshould beshort.<br><br>2. The abstract is clumsyand unclear.It should beconciselywritten to makethe objective clearand briefthe outcome (possibly, fiveto sixsentences for this article).<br><br>3. Theintroduction section, especiallythe literaturereview on the considered model (1), is verypoor and unconvincing. This section needs to berewritten completelynew with appropriatereferencesand statements.Icannot write all therelated references to scalar reaction-diffusion problems here andI ask the author to do aproper reviewon theequation checkingfor the existingresults with different methods, gapsarisingthere,and writehow | |

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| | the present work canfill thegaps.<br><br>4. The author has not studied anydynamics. Theyhavegiven plot forparticular choiceof parameters and this cannot be regarded asclear study.<br><br>5. Plentyof irrelevant references areincluded, while significantlyrelated/required works aremissed.<br>6. What is the main contribution of this paper?It should be explained in detail.<br>7. Generallywell-writtenpaper, to improvethe qualityof thepaper, pleasecheckyour sentencesand/or English onemoretime.<br>8. Keywords should not include theword thatexisted in the title.<br>9.It is better toadd someideas forfuturework in theSection ofthe Conclusion.<br>10. Haveyou employedany assumptions?Please explain.<br>11. Please check abstractand correct verb time.<br><br>*Please check the end ofexpression including"comma"and"point"inallpaper.<br><br>12. The authors need to add asection as discussion and results.<br><br>13. Thepaper lacks physical prospects. Add physical explanation in thediscussion section.<br><br>14. Thegraphical visualization is not clearIam tryingto understand thebehaviour ofthe graphs but thegiven information accordingto mypointof view is not sufficient sharethe sourcehow wevisualizethe graphs andcheck their accuracy. So, paste all computational work here.<br><br>15. Thefollowingpaperssshould be addedto thepaper:<br><br>TheSolution of theVariable CoefficientsFourth-Order ParabolicPartial Differential Equations bythe HomotopyPerturbation Method, ZeitschriftfürNaturforschungA-A Journal of Physical Sciences, 64a, 420– 430 (2009)<br><br>Studyof thewave-breaking's qualitative behaviorof theFornberg-Whitham equation via quasi-numeric approaches,International Journal of Numerical Methods forHeat&Fluid Flow, Vol. 22 No. 5, (2012) 537-553.<br><br>Solvingthe integro-differential equations usingthemodifiedLaplaceAdomian decomposition Method, Journal of MathematicalExtension, 6(1), (2012) 1-15.<br><br>Numerical treatment ofBenjamin-Bona-Mahonyequation byusingAlpertMultiwavelets, European Physical Journal Plus, (2018), 133:201<br><br>An optimal galerkin-homotopyasymptotic methodapplied to thenonlinearsecond-order bvps. Proc Inst Math Mech 2021;47(1):156–82.<br><br>An analytical analysistosolve thefractional differential equations. Adv Math Models Appl 2021;6(2):128–61. | |

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| | 16. Authors should offeranother examplewith computingthe error and Error Table and plotfor comparingthe errors. | |

**PART 2:**

| | **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)* |
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| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | |

**Reviewer Details:**

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| Name: | **Jalil Manafian** |
| Department, University & Country | **University of Tabriz, Iran** |