



SDI Review Form 1.6

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	Ms_BJAST_30224
Title of the Manuscript:	Simulation of Heat Conduction using An Hybrid Floating Walk and Markov Chain Technique
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>)



SDI Review Form 1.6

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)
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments	This paper studies a hybrid technique for numerical simulation of heat conduction. The technique gave good results when compared with finite difference solution and suitably handled irregular shaped body. The computational time is however longer as compared with the finite difference technique. The considered techniques are interesting. Although the paper needs substantial improvements both in terms of clarity and scientific contributions. I found several repetitions of words or even sentences in the paper, so the authors should carefully read through their paper again to remove such occurrences. I also think several english formulations could be improved. More importantly, practical applications should justify the assumptions and motivate the work. As it is, it just seems to be a compilation of properties. In particular, the authors should answer the questions: What practical cases does the model address? What gap does it fill in the literature? Do the results show counter-intuitive results that can help practitioners to manage their system in a more efficient manner?	The paper has been revised to remove any repetitive words/sentences. The paper seeks to improve on the use of floating walk technique for engineering analysis especially in heat conduction. Floating walk is generally less cumbersome to implement unlike conventional technique such as finite difference and finite element. A practical case study (cooling of turbine blade) was actually discussed (this is now so indicated). In essence the paper attempts to expand the capability of floating walk by integrating a markov chain technique which have not be so reported in the literature.
<u>Optional/General</u> comments		