



SDI Review Form 1.6

Journal Name:	<u>Physical Science International Journal</u>
Manuscript Number:	Ms_PSIJ_29107
Title of the Manuscript:	Radiation effects on heat and mass transfer of MHD fluid over a permeable stretching sheet with Buoyancy forces
Type of the 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>)



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PART 1: Review Comments

	Reviewer's comment	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	This study uses a well established numerical methodology to calculate the heat and mass transfer processes for fluid flow over a sheet when there are magnetic effects, buoyancy effects, and radiation. The paper is interesting and of use to both the academic and engineering communities. There are, however, issues that must be addressed prior to publication. First, the quality of the writing must be improved. For instance, in the abstract, there are words that are capitalized which are not at the beginning of a sentence (Temperature). Other formatting problems like inconsistent indentation depths for paragraphs. The authors need to do a better job connecting this work to real applications. Very little is said here and only two references. In addition, the authors should do a better job laying out the current state of knowledge in the areas of boundary layer flow with moving surfaces, buoyancy and the appropriateness of Boussinesq, and of radiation related to a moving sheet. I suggest the following references on these topics, there may be others. The last paper in this list confirms the authors view that the Boussinesq model is an appropriate approximation. 1. E. M. Sparrow and J. P. Abraham, Universal Solutions for the Streamwise Variation of the Temperature of a Moving Sheet in the Presence of a Moving Fluid, <i>International</i>	



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	<i>Journal of Heat and Mass Transfer</i>, Vol. 48, pp. 3047-3056, 2005. 2. J. P. Abraham and E. M. Sparrow, Friction Drag Resulting From the Simultaneous Imposed Motion of a Freestream and its Bounding Surface, <i>International Journal of Heat and Fluid Flow</i>, Vol. 26, pp. 289-295, 2005. 3. S.K. S. Boetcher, E.M. Sparrow, and J.P. Abraham, Numerical Simulation of the Radiative Heating of a Moving Sheet, <i>Numerical Heat Transfer</i>, Vol. 47, pp. 1-25, 2005. 4. E. M. Sparrow and J. P. Abraham, A New Buoyancy Model Replacing the Standard Pseudo-Density Difference for Internal Natural Convection in Gases, <i>International Journal of Heat and Mass Transfer</i>, Vol. 46, pp. 3583-3591, 2003. Please make Figure 1 larger and more legible. Please discuss more the applications of a stretching sheet and its close relationship to a moving web problem. The presentation of the model is quite clear. Good work. Please make sure you remind the reader of the laminar constraint on the flow. Some of the mathematics might be best put into an appendix to approve reading of the main text. The formatting of the graphs is not well done. The	
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	images should not have a border. The axis labels should be moved away from the numbers and should be centrally located along the axis. The author presents many figures and then only a short discussion after the figures. All figures that appear should be discussed in the text that precedes the figure. My recommendation is not show so many graphs. Show only the important results but do a better job explaining and interpreting the results. Include a summary or conclusion section.	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		

Reviewer Details:

Name:	John Abraham
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