



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms CJAST 40125
Title of the Manuscript:	The coupling conduction effects on natural convection flow along a vertical flat plate with Joule heating and heat Generation
Type of Article:	Original research paper

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
In the article, the coupling conduction effects on natural convection flow along a vertical flat plate with Joule heating and heat generation are presented. The aim, objectives, method of solution, methodology and the results are of great standard and novel. Authors may earn a positive recommendation if all the following comments are properly considered and addressed. 1. Comment on Fig. 5a: Remove the velocity profile for $Pr = 0.10$. This profile is too distinct. 2. Discussion of Table 1 should be improved using slope of linear regression through the data points. Author should check the print screen of Microsoft Excel below. 3. In the article, effects of Joule heating are presented. However, author failed to introduce magnetic field and Joule heating. Author should bear in mind that <i>"Depending on the overall length of your paper, it will be necessary to include a review of the existing literature already published in the field. This is an important element of your paper which demonstrates that you have a strong knowledge and understanding of the debates and scholarship in your area."</i>	1. In figure 5a various values of Pr is corrected. 2. We mainly used Lahey FORTRAN 90 and found different values of heat generation parameters that some of the values for different position of ξ are shown in Table 1. 3. We've already rewritten overall literature of the paper. We used those papers which are relevant to this work. Also, we included three relevant articles. 4. We have corrected some figures (1,5a, 6a, 6b, 7a, 7b, 8a, 8b) properly.

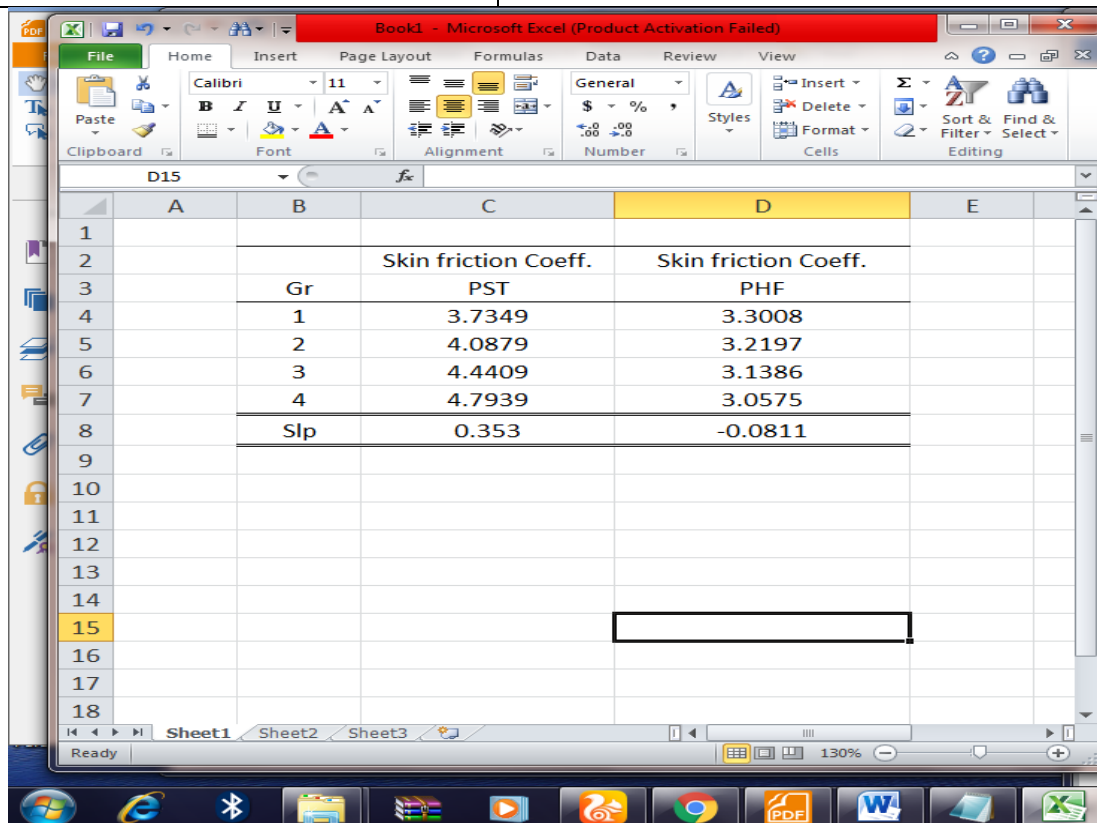


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Comment: Author should update the introduction with a new paragraph of magnetic field and Joule heating using the following published reports:::: Alfven, H. (1942). Existence of Electromagnetic-Hydrodynamic Waves. Nature Publishing Group 150(3805), 405-406. doi 10.1038/150405d0. Rossow VJ (1957). On flow of electrically conducting fluid over a flat plate in the presence of a transverse magnetic field, NACA Technical Report, 3071. Report/Patent Number: NACA-TR-1358 Makinde OD and Animasaun IL (2016) Bioconvection in MHD nanofluidflow with nonlinear thermal radiation and quartic autocatalysis chemical reaction past an upper surface of a paraboloid of revolution, International Journal of Thermal Sciences 109, 159-171. doi: 10.1016/j.ijthermalsci.2016.06.003 Makinde OD and Animasaun IL (2016) Thermophoresis and Brownian motion effects on MHD bioconvection of nanofluid with nonlinear thermal radiation and quartic chemical reaction past an upper horizontal surface of a paraboloid of revolution. Journal of Molecular Liquids 221, 733 - 743. doi: 10.1016/j.molliq.2016.06.047 Is adequate reference made to other work on MHD and Joule heating? No, see the comment above. 4. If there was no problem, there would be no reason for writing a report, and definitely no reason for reading it.	
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Author(s) should prepare the last paragraph of the introduction such that the relevance of this manuscript can be fetched.



	A	B	C	D	E
1					
2			Skin friction Coeff.	Skin friction Coeff.	
3		Gr	PST	PHF	
4		1	3.7349	3.3008	
5		2	4.0879	3.2197	
6		3	4.4409	3.1386	
7		4	4.7939	3.0575	
8		Slp	0.353	-0.0811	
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

The formula on Excel for Skin friction Coeff. PST is =SLOPE(C4:C7,B4:B7)

The formula on Excel for Skin friction Coeff. PHF is =SLOPE(D4:D7,B4:B7)

For more facts on the method, the author may consult the report "NA Shah, IL Animasaun, RO Ibraheem, HA Babatunde, N Sandeep, I Pop (2018) Scrutinization of the effects of Grashof number on the flow of different fluids driven by convection over various surfaces, Journal of Molecular Liquids 249, 980 - 990. doi:10.1016/j.molliq.2017.11.042"