

Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_90589
Title of the Manuscript:	Analytical and Numerical studies of transient heat transfer in soil for geothermal systems
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:

(<https://www.journalpsij.com/index.php/PSIJ/editorial-policy>)

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)
Compulsory REVISION comments		
Minor REVISION comments	<p>The write up of this article is clear. Detail is sufficient. Language is acceptable. The contents are relevant to this journal. The comparisons shown in this article are fine. The paper can be accepted with the following major changes.</p> <ol style="list-style-type: none"> Abstract should be modified in term of findings. Proper references should be assigned to the adopted governing model. Add nomenclature with SI units to improve the present form of the paper. Write the flow governing equations in vector form before writing the equations directly in the formulation section. Improvement of depth physical discussion analysis for the graphical plots is needed. Highlight the novelty over previous work on that problem. What are the limitations of the defined problem? Should maintain the symbols are in uniform size throughout the paper. Remove irrelevant references. Modified introduction with some recent references given below. <p>A. Melting heat transportation in radiative flow of nanomaterials with irreversibility analysis, B. Irreversibility characterization in nanoliquid flow with velocity slip and dissipation by a stretchable cylinder, E. Entropy optimization in passive and active flow of liquid hydrogen based nanoliquid transport by a curved stretching sheet, F. Computational analysis of heat transfer in mixed convective flow of CNTs with entropy optimization by a curved stretching sheet, G. Salient features of Dufour and Soret effect in radiative MHD flow of viscous fluid by a rotating cone with entropy generation, H. Entropy optimized CNTs based Darcy-Forchheimer nanomaterial flow between two stretchable rotating disks, I. Theoretical investigation of Ree–Eyring nanofluid flow with entropy optimization and Arrhenius activation energy between two rotating disks, J. Simulation and modeling of entropy optimized MHD flow of second grade fluid with dissipation effect.</p>	
Optional/General comments		

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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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