Journal Name:	**Asian Research Journal of Mathematics**
Manuscript Number:	**Ms_ARJOM_48995**
Title of the Manuscript:	**THE THERMISTOR PROBLEM WITH HYPERBOLIC ELECTRICAL CONDUCTIVITY**
Type of the Article	**Original Research Article**

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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.
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<mark>PART 1:</mark> **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	The manuscript entitled "THE THERMISTOR PROBLEM WITH HYPERBOLIC ELECTRICAL CONDUCTIVITY" shows the one-dimensional, positive temperature coefficient (PTC) thermistor equation, using the hyperbolic-tangent function as an approximation to the electrical conductivity of the device. It will be accepted after a minor revision. The review comments are the following. (1) In line 42, there should be a space between Kutluay and [8]. Similarly in line 45, the space should be given to $x = 1$ and will. (2) In line 91, the word "And" should be "and". In line 98, the word "Subject" should be "subject". (3) In line 92, there should be a full stop after Eq. (7). In line 102, …the electrical conductivity…should be written as …The electrical conductivity… Similarly In line 105, there should be a full stop after $\delta = 10^{-5}$. Care must be taken for removing all the English typos. (4) In Figure 1 caption, Resistance starts with capital letter while In Figure 2 caption, continuity starts with small letter. Similarity must exists in the captions. (5) Line 121 starts with "In this paper, we present…". Please remove the words like we, our etc. and rephrase them with suitable words. (6) In line 124 and others, check the spelling of "Normalized". (7) Check carefully Figure 3, whether the graph satisfies the the full range $0 \le u \le 2$. (8) The paper will leave a deep impression if discussion is included. There is no discussion in the paper. (9) The manuscript entitled "THE THERMISTOR PROBLEM WITH HYPERBOLIC ELECTRICAL CONDUCTIVITY" shows the characteristics of temperature but the introduction part is weak. The following papers show the rational studies on heat transfer, so must be cited. (i) Thin film flow of a second-grade fluid in a porous medium past a stretching sheet with heat transfer. (2017) Alexandria Engineering Journal, https://dx.doi.org/10.1016/j.aej.2017.01.036. (ii) Thermophoresis and thermal radiation with heat and mass transfer in a magnetohydrodynamic thin film second-grade fluid of variable properties past a stretching sheet (2017) European Physical Journal Plus, 132, 11, https://dx.doi.org/10.1140/ep jp/i2017-11277-3. (iii) Magnetohydrodynamic nanoliquid thin film sprayed on a stretching cylinder with heat transfer.(2017) (http://www.mdpi.com) Journal of Applied Sciences, 7, 271. (iv) Flow and heat transfer in water based liquid film fluids dispensed with graphene nanoparticles (2018) Results in Physics, 8:1143-1157. https://dx.doi.org/10.1016/j.rinp.2018.01.032. (v) Mixed convection in gravity-driven thin film non-Newtonian nanofluids flow with gyrotactic microorganisms, (2017) Results in Physics, 7:4033-4049. http://dx.doi.org/10.1016/j.rinp.2017.10.017 (vi) Non-Newtonian nanoliquids thin film flow through a porous medium with	

magnetotactic microorganisms. Journal of Applied Nanoscience, (2018) https://dx.doi.org/10.1007/s13204-018-0834-5

(vii) Magnetohydrodynamic second grade nanofluid flow containing nanoparticles and gyrotactic microorganisms. Journal of Computational and Applied Mathematics. 2018, 37, 6332–6358, https://dx.doi.org/10.1007/s40314-018-0683-6

(viii) Bioconvection in second grade nanofluid flow containing nanoparticles and gyrotactic microorganisms (2018) Brazilian Journal of Physics, 48(3):227-241, https://dx.doi.org/10.1007/s13538-018-0567-7

(ix) Study of two dimensional boundary layer flow of a thin film fluid with variable thermo-physical properties in three dimensions space. Journal of AIP Advances, 2018, 8, 105318. https://dx.doi.org/10.1063/1.5053808

(x) Simulation of bioconvection in the suspension of second grade nanofluid containing nanoparticles and gyrotactic microorganisms. Journal of AIP Advances 2018, 8, 105210. https://dx.doi.org/10.1063/1.5054679

(xi) Slip flow of Eyring-Powell nanoliquid film containing graphene nanoparticles due to an unsteady stretching sheet with heat transfer. Journal of AIP Advances 2018, 8, 115302. https://dx.doi.org/10.1063/1.5055690

(xii) Brownian motion and thermophoresis effects on MHD mixed convective thin film second-grade nanofluid flow with Hall effect and heat transfer past a stretching sheet. Journal of Nanofluids 2017, 6(5): 812-829, https://dx.doi.org/10.1166/jon.2017.1383.

(xiii) Hall current and thermophoresis effects on magnetohydrodynamic mixed convective heat and mass transfer thin film flow. Journal of Physics Communications (2018), https://dx.doi.org/10.1088/2399-6528/aaf830.

(xiv) Entropy generation in MHD mixed convection non-Newtonian second-grade nanoliquid thin film flow through a porous medium with chemical reaction and stratification, Journal of Entropy, 2019, 21, 139; https://dx.doi:10.3390/e21020139

(xv) Influence of inclined magnetic field on Carreau nanoliquid thin film flow and heat transfer with graphene nanoparticles. Journal of Energies (MDPI), 2019, 12, https://dx.doi: 10.3390/en12010001

Entropy generation in two phase model for simulating flow and heat transfer of carbon nanotubes between rotating stretchable disks with cubic autocatalysis chemical reaction. Journal of Applied Nanoscience, https://dx.doi: 10.1007/s13204-019-01017-1

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Minor REVISION comments		
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?	*(If yes, Kindly please write down the ethical issues here in details)*	
If plagiarism is suspected, <u>please provide related proofs or web links.</u>	The authors must provide the similarity report less than 15% with single source less than 1% with the revised form	

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