



Correction to: Entropy generation analysis on electroosmotic flow in non-Darcy porous medium via peristaltic pumping

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The authors recently attempted [1] an electro-osmotic flow of viscous fluid across a non-Darcy porous medium. A typing error has been noted. Authors wrote

$$\rho \left(\frac{\partial \tilde{u}}{\partial \tilde{t}} + \tilde{u} \frac{\partial \tilde{u}}{\partial \tilde{x}} + \tilde{v} \frac{\partial \tilde{u}}{\partial \tilde{y}} \right) = - \frac{\partial \tilde{p}}{\partial \tilde{x}} + \mu \left(\frac{\partial^2 \tilde{u}}{\partial \tilde{x}^2} + \frac{\partial^2 \tilde{u}}{\partial \tilde{y}^2} \right) - \sigma \tilde{B}_0^2 \tilde{u} + \rho E_0 - \frac{\mu}{k^*} \tilde{u} - \frac{\rho c k^*}{\sqrt{k^*}} \tilde{u} \sqrt{\tilde{u}^2 + \tilde{v}^2},$$

Authors were supposed to write term $\rho_e E_0$ instead of ρE_0 on R.H.S of Eq. (11). The correct form is:

$$\rho \left(\frac{\partial \tilde{u}}{\partial \tilde{t}} + \tilde{u} \frac{\partial \tilde{u}}{\partial \tilde{x}} + \tilde{v} \frac{\partial \tilde{u}}{\partial \tilde{y}} \right) = - \frac{\partial \tilde{p}}{\partial \tilde{x}} + \mu \left(\frac{\partial^2 \tilde{u}}{\partial \tilde{x}^2} + \frac{\partial^2 \tilde{u}}{\partial \tilde{y}^2} \right) - \sigma \tilde{B}_0^2 \tilde{u} + \rho_e E_0 - \frac{\mu}{k^*} \tilde{u} - \frac{\rho c k^*}{\sqrt{k^*}} \tilde{u} \sqrt{\tilde{u}^2 + \tilde{v}^2}, \quad (11)$$

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Reference

1. Noreen S, Ul Ain Q. Entropy generation analysis on electroosmotic flow in non-Darcy porous medium via peristaltic pumping. *J Therm Anal Calorim.* 2019. <https://doi.org/10.1007/s10973-019-08111-0>.

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