A problem of entropy generation in a channel filled with a porous medium

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ABSTRACT.

The problem studied is that of entropy generation for mixed convection in an inclined channel. The channel is filled with a porous medium and has an uniform wall heat flux. The flow is upward and the heat flux is into the channel. The solutions of the governing Darcy and energy equations are used for analyzing the entropy generation and the Bejan number into the channel. The results are plotted and studied for different important parameters involved and for different inclinations angle of the channel.

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