

## Numerical Simulation of Heat Transfer Enhancement due to a Gap in an Inclined Continuous Rib Arrangement in a Solar Air Heater Duct

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### ABSTRACT

In the present work, numerical simulation has been carried out to investigate the effect of an inclined rib with a gap on the performance of a solar air heater duct. The geometry is numerically modeled and three-dimensional Navier-Stokes equation has been solved using a commercial code Ansys Fluent 14. 5 for the Reynolds number range of 3500 to 19, 000. The flow geometry of the rectangular duct has rectangular cross-section of 181 mm in width and 31 mm in height. The artificial roughness was generated using square ribs of 2 mm size having a gap with fix roughness parameters, namely relative roughness height ( $e/D_h$ ) of 0. 037, relative pitch ( $P/e$ ) of 8, relative gap position ( $g/W$ ) of 0. 25, relative gap width ( $g/e$ ) of 1. 0 and relative roughness angle ( $\alpha$ ) of  $60^\circ$ . The absorber plate is heated with a constant heat flux of  $1000 \text{ W/m}^2$  keeping in view of the heat generated by incidence solar radiation. The effect of the roughness geometry on heat transfer and flow field characteristics of the duct has been investigated numerically. The boundary layer elements were attached near the heating wall and total hexahedral elements of around 2. 1 million are used based on grid independency analysis. Different turbulent models are used and their results are compared. Realizable  $k-\epsilon$  model with standard wall treatment showed good agreement with available experimental results. The comparison of numerical results with the experimental results shows the deviation in the range of 3-20% for Nusselt number for the range of investigation.

**Keywords:** Solar air heater duct, heat transfer, artificial roughness, computational fluid dynamics, turbulence

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