Review of: "Numerical Study of Thermal Performance on Fin and Tube Heat Exchanger with Flat Rectangular and Sinusoidal Winglet Vortex Generators"

Laith Jasim[1]

1 University of Mosul

Potential competing interests: No potential competing interests to declare.

1. Grammatical corrections:

There are some grammatical errors in the article. The file with the name " 8UR337_Grammatical corrections " that is attached shows the location of the errors and provides linguistic corrections. Use “Foxit Phantom PDF” to open the correction file.

1. It is preferable that the article include a list of symbols.
2. The author described the equations presented in the research as dimensionless equations, while they are written in dimensional form. Equations must also be numbered. Also, the author described the flow as compressible, while the governing equations are written under the assumption that the flow is incompressible.
3. One of the most important ways to reduce the numerical cost is to choose a specific distribution of mesh elements in the physical field with the least number of elements. This can be accomplished by a Grid Independence or Grid Sensitivity test.

A grid test is usually done for specific operating conditions and for one case, through which the Nusselt number is calculated for several types of grids with different numbers of nodes. The relationship between the Nusselt number and the number of nodes in the mesh is drawn, or the results are put in a table, and the error rate of the results is analyzed; then the appropriate mesh is chosen and presented in the paper, as in the figures below.

Therefore, I suggest adding a figure showing the sensitivity of the mesh and presenting the mesh in the research paper.