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efficient heat transfer device

that relies on evaporation and
condensation processes for
energy transfer the main
purpose of this study is to
simulate a two phase closed
thermosyphon at moderate
temperature that can be used
in industrial applications such
as steam power plants after
creating a computational
network in the gambit
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method it is possible to
compare heat transfer to
current flow in electrical
circuits the heat transfer rate
may be considered as a current
flow and the combination of
thermal conductivity thickness
of material and area as a
resistance to this flow the
temperature difference is the
potential or driving function for
the heat flow resulting in the

fourier equation
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transfer process is strongly
dependent upon the properties
of the fluid being considered
correspondingly the convective
heat transfer coefficient h the
overall coefficient u_o and the
other fluid properties may vary
substantially for the fluid if it
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