Magneto-hydrodynamics heat and mass transfer analysis of single and multi - wall carbon nanotubes over vertical cone with convective boundary condition

P. Sreedevi , P. Sudarsana Reddy , Ali. J. Chamkha

PII: S0020-7403(17)32168-9
DOI: 10.1016/j.ijmecsci.2017.12.007
Reference: MS 4071

To appear in: *International Journal of Mechanical Sciences*

Received date: 6 August 2017
Revised date: 17 October 2017
Accepted date: 1 December 2017

Please cite this article as: P. Sreedevi , P. Sudarsana Reddy , Ali. J. Chamkha , Magneto-hydrodynamics heat and mass transfer analysis of single and multi - wall carbon nanotubes over vertical cone with convective boundary condition, *International Journal of Mechanical Sciences* (2017), doi: 10.1016/j.ijmecsci.2017.12.007

Highlights

- $\left(-\theta'(0)\right)$ is higher in MWCNTs – water than SWCNTs – water nanofluid with all parameters.
- Temperature decrement is more in MWCNTs than SWCNTs–water nanofluid as (??) rises.
- A rise in magnetic parameter (*M*) elevates the temperature of the both nanofluids.
- Temperature profiles enhances in SWCNTs than MWCNTs – water nanofluid as (*R*) rises.