Accepted Manuscript

Appraising influence of COOH-MWCNTs on thermal conductivity of antifreeze using curve fitting and neural network

Ali Ghasemi, Mohsen Hassani, Marjan Goodarzi, Masoud Afrand, Sahebali Manafi

PII: S0378-4371(18)31128-2
DOI: https://doi.org/10.1016/j.physa.2018.09.004
Reference: PHYSA 20065

To appear in: *Physica A*

Received date : 8 June 2018
Revised date : 17 August 2018

Please cite this article as: A. Ghasemi, et al., Appraising influence of COOH-MWCNTs on thermal conductivity of antifreeze using curve fitting and neural network, *Physica A* (2018), https://doi.org/10.1016/j.physa.2018.09.004

Highlights

- Investigation of the effect of functionalized multi walled carbon nanotubes on the thermal conductivity of antifreeze.
- Suggesting precise correlation to predict thermal conductivity of COOH-MWCNTs/antifreeze
- Proposing high efficiency ANN to forecast thermal conductivity of CNT nano-antifreeze
- Comparison between experimental data, correlation and ANN outputs