

Accepted Manuscript

Using artificial neural network and quadratic algorithm for minimizing entropy generation of Al₂O₃-EG/W nanofluid flow inside parabolic trough solar collector

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PII: S0960-1481(18)30654-2

DOI: [10.1016/j.renene.2018.06.023](https://doi.org/10.1016/j.renene.2018.06.023)

Reference: RENE 10179

To appear in: *Renewable Energy*

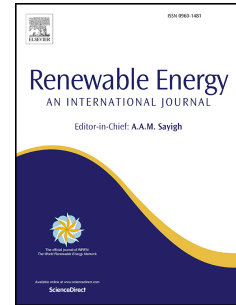
Received Date: 10 January 2018

Revised Date: 7 May 2018

Accepted Date: 7 June 2018

Please cite this article as: Ebrahimi-Moghadam A, Mohseni-Gharyehsafa B, Farzaneh-Gord M, Using artificial neural network and quadratic algorithm for minimizing entropy generation of Al₂O₃-EG/W nanofluid flow inside parabolic trough solar collector, *Renewable Energy* (2018), doi: 10.1016/j.renene.2018.06.023.

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The *first* phase

Initial inputs

Obtaining N_s

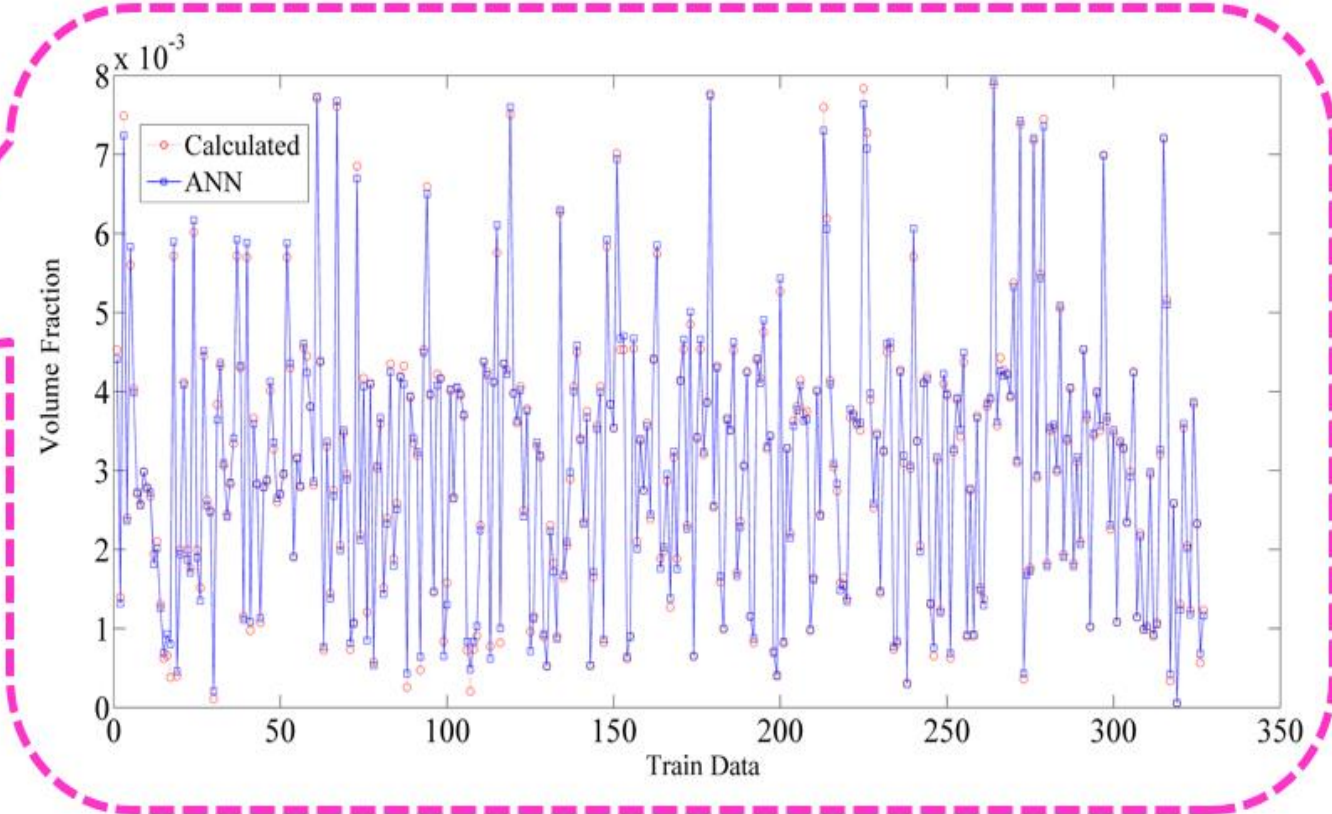
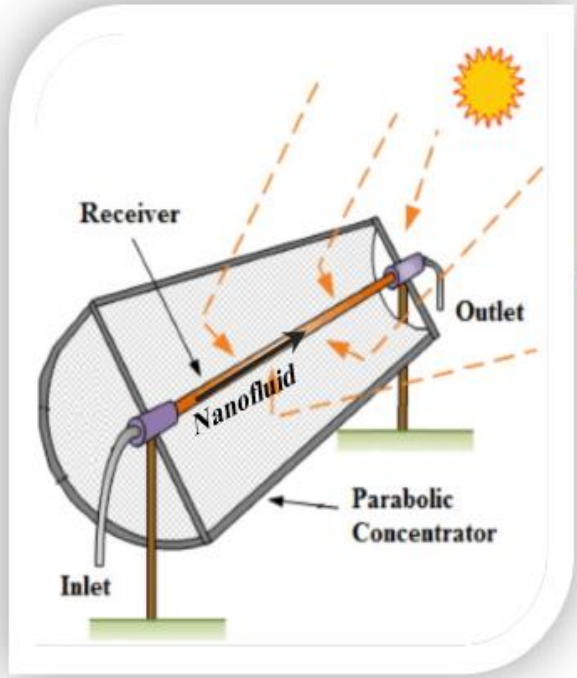
Finding optimum volume fraction based on the problem variables (T , Re and d_p) using Quadratic optimization algorithm

The *second* phase

Optimum volume fraction
 $= f(T, Re, d_p)$

Artificial Neural Network (ANN)

Inputs: T, Re, d_p
Target: ϕ_{opt}



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