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mhosein.ahmadi@shahroodut.ac.ir Afshin Tatar Young Researchers and Elite Club, Islamic Azad University, North Tehran Branch, Tehran, Iran; Milad Sadeghzadeh Department of Renewable Energy and Environmental Engineering, University of Tehran, Tehran, Iran Pages 1190-1206 | Received 01 May 2018, Accepted 27 Aug 2017, Published online: 17 Oct 2018 • <u>□Cite this article</u> • <u>https://doi.org/10.1080/10407782.2018.1523597</u> • CrossMark Logo CrossMark Sample our Engineering & Technology journals, sign in here to start your access, latest two full volumes FREE to you for 14 days • ☐ Full Article • ☐ Figures & data • <u>References</u> • <u>Citations</u> • <u>Metrics</u> • Reprints & Permissions • Read this article **Abstract** In this study, Multilayer Perceptron Artificial Neural Network (MLP-ANN) model and Least Square Support Vector Machine (LSSVM), were developed to predict the thermal performance and pressure loss of nanofluid flow through coils as non-straight pathways. There different coils with various curvature ratios and coil pitches were constructed and used. Stable TiO₂ (50 nm)/wate ina X appropria was achieved nofluid, by applica Prandtl n ') were introduce ressure drop sults of (291.35 to developed pressure drop LP model of of nanoflu this study Reprint article, please see oi To reques levant link below:

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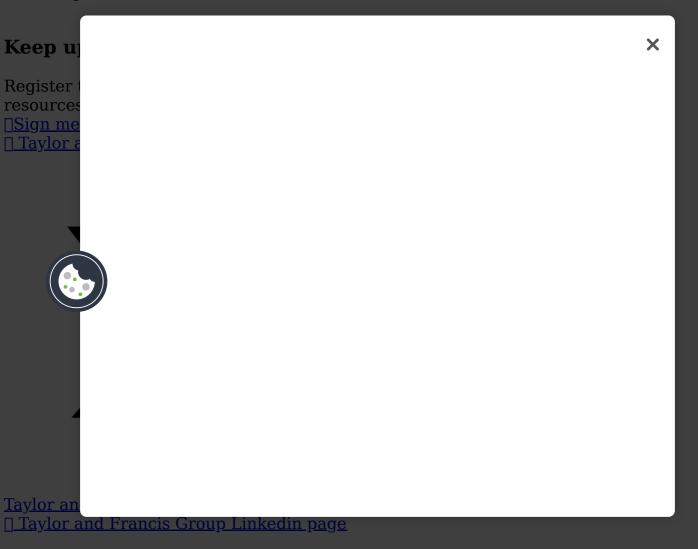
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