


## Faculty Vitae

### General Information:

Name	Nationality	Photo
Dr Chandra Mouli	Indian	

### Education:

Degree	Discipline	Institution	Year
Ph D	Industrial Engineering	Indian Institute of Technology Kharagpur, India	2012
PhD	Mechanical Engineering	JNT University. Hyderabad, India	2008
M.Tech	Industrial Engineering	JNT University. Hyderabad, India	1994

### Academic Experience:

Institution	Title	Period	FT/PT
GITAM University, Visakhapatnam, India	Professor	31-01-2001- 17-10-2014	FT

### Non-academic Experience:

Organization	Title	Duties	Period	FT/PT
SAMKRG Pistons Limited, Hyderabad, India	Asst Manager (PPC)_	Production Planning and Control	1-04-1994 to 17-12-2000	FT

Current membership in professional organizations

Honors and awards:

### Important publications and presentations from the past five years:

1	Matiewos Mekonen Abera, Venkata Ramayya Ancha, Balewgize Amare, Sangaraju Sambasivam, <b>Kotturu V.V. Chandra Mouli</b> , L. Syam Sundar, "Simulation and Optimization of Energy Efficiency and Total Enthalpy Analysis of Sand Based Packed Bed Solar Thermal Energy Storage", <i>Frontiers in Heat and Mass Transfer (Tech Science Press ISI Q3, Impact Factor 1.8)</i> .
2	Syam Sundar, L. Hiren K. Mewad <b>Chandra Mouli, K.V. V.</b> Antonio C.M. Sousa "Thermal Entropy Generation and Exergy Efficiency Analysis of rGO/Water Nanofluid in a Tube under Turbulent Regime Through Experimental and Fully Connected Neural Network". <i>Diamond and Related Materials, (Elsevier Publisher - ISI Q2, Impact Factor 4.1)</i> .
3	Syam Sundar, L.A.M Alklaibi, S. Sambasivan, <b>Chandra Mouli, K.V. V.</b> "Experimentally determining the thermophysical properties, heat transfer and friction factor Fe <sub>3</sub> O <sub>4</sub> -TiO <sub>2</sub> magnetic hybrid nanofluids in a mini-heat sink under magnetic field: Proposing new correlations". <i>Journal of Magnetism and Magnetic Materials</i> , Vol. 594, 171889. (2024) (Elsevier Publisher ISI Q3, Impact Factor 2.7)

4	<b>Chandra Mouli, K.V. V</b> , Syam Sundar, L. "Effectiveness and Number of Transfer Units of Plate Heat Exchanger Working with Fe <sub>3</sub> O <sub>4</sub> -SiO <sub>2</sub> /Water Hybrid Nanofluids: An Experimental and ANN Predictions". <i>Case Studies in Thermal Engineering</i> , Vol. 53(1). 103949. (2024) ( <b>Elsevier Publisher ISI Q1, Impact Factor 6.8</b> )
5	Alklaibi, A.M. <b>Chandra Mouli, K.V. V</b> Syam Sundar, L. "Heat transfer, and friction factor of Fe <sub>3</sub> O <sub>4</sub> -SiO <sub>2</sub> /Water hybrid nanofluids in a plate heat exchanger: Experimental and ANN predictions". <i>International Journal of Thermal Science</i> , Vol. 195(1). 108608. (2024) ( <b>Elsevier Publisher ISI Q1, Impact Factor 4.5</b> ).
6	<b>Chandra Mouli, K.V. V</b> "Water Resource Management Policies: A Study for Sustained Growth of the Visakhapatnam Urban Area India". <i>Journal of Applied Engineering Research</i> . Vol. 10(2), pp 130-137, (2023).
7	Alklaibi, A.M. <b>Chandra Mouli, K.V. V</b> Syam Sundar, L. "Experimental and Support Vector Machine Predictions of Entropy Generations and Exergy Efficiency of Fe <sub>3</sub> O <sub>4</sub> SiO <sub>2</sub> /Water hybrid nanofluid in a Plate Heat Exchanger". <i>Heliyon</i> , Vol. 9. e21730. (2023) ( <b>Elsevier Publisher ISI Q2, Impact Factor 4.0</b> ).
8	Syam Sundar, S. Sambasivan S, <b>Chandra Mouli, K.V. V</b> "Effect of Magnetic Field on the Thermal Conductivity and Viscosity of Magnetic Manganese oxide/ Ethylene Glycol Nano Fluids: An Experimental and NNFIS Approach". <i>Journal of Magnetism and Magnetic Materials</i> , Vol.588(1). 171386. (2023) ( <b>Elsevier Publisher ISI Q3, Impact Factor 2.7</b> ).
9	Syam Sundar, L. <b>Chandra Mouli, K.V. V</b> . "Experimental Analysis and Levenberg-Marquardt Artificial Neural Network Predictions of Heat Transfer, friction factor, and efficiency of Thermosyphon Flat Plate Collector with MgO/Water Nanofluids". <i>International Journal of Thermal Science</i> , Vol. 194(12), 108555. (2023) ( <b>Elsevier Publisher ISI Q1, Impact Factor 4.5</b> ).
10	Alklaibi, A.M. <b>Chandra Mouli, K.V. V</b> Syam Sundar, L.. "Experimental Investigation of Heat Transfer and Effectiveness of Employing Water and Ethylene Glycol Mixture based Fe <sub>3</sub> O <sub>4</sub> Nanofluid in a Shell and Helical Coil Heat Exchanger". <i>Thermal Science and Engineering Progress</i> Vol.40, 101739. (2023) ( <b>Elsevier Publisher ISI Q1, Impact Factor 4.8</b> ).
11	Syam Sundar, L. Alklaibi, A.M. <b>Chandra Mouli, K.V. V</b> . D Balakrishnan "Heat Transfer Coefficient and Thermal Performance of Heat Pipe with R134a/Mineral Oil Nanodiamond+Fe <sub>3</sub> O <sub>4</sub> Hybrid Nano refrigerant". <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> (2023) ( <b>SAGE Publisher ISI Q3, Impact Factor 1.75</b> ).
12	<b>K.V.V. Chandra Mouli</b> , L. Syam Sundar, A.M. Alklaibi, Zafar Said, K.V. Sharma, V. Punnaiah, Antonio C.M. Sousa "Exergy Efficiency and Entropy Analysis of MWCNT/Water Nanofluid in a Thermosyphon Flat Plate Collector", <i>Sustainable Energy Technologies and Assessments</i> , Vol.55, 102911, (2023) ( <b>Elsevier Publisher ISI Q1, Impact Factor 8.0</b> ).
13	Praveen, R. P. and <b>Chandra Mouli, K.V. V</b> , "Performance Enhancement of Parabolic Trough Collector Solar Thermal Power Plants with Thermal Energy Storage Capability", <i>Ain Shams Engineering Journal</i> Vol.13, No.5, 10716. (2022) ( <b>Elsevier Publisher ISI Q2, Impact Factor 6.0</b> ).

14	Alklaibi, A.M. Syam Sundar, L. <b>Chandra Mouli, K.V. V.</b> "Experimental Investigation on the Performance of Hybrid Fe <sub>3</sub> O <sub>4</sub> Coated MWCNT/Water Nanofluid as a Coolant of a Plate Heat Exchanger", <i>International Journal of Thermal Sciences</i> . Vol. 171, 107249. (2022) ( <b>Elsevier Publisher ISI Q1, Impact Factor 4.5</b> )
15	Alklaibi, A.M. Syam Sundar, L. <b>Chandra Mouli, K.V. V.</b> and Antonio, S "Experimental Analysis of Thermo-hydraulic Performance of Water Based Nanodiamond-Fe <sub>3</sub> O <sub>4</sub> Hybrid Nanofluid in a Tube at Turbulent Flow", <i>Heat Transfer Research</i> , Vol. 52, No.12, pp 1-27. (2021) ( <b>Begell House Publisher ISI Q4, Impact Factor 1.19</b> ).
16	Syam Sundar, L. Akanaw. T.T. Sintie, Y.T. Zafar, S. <b>Chandra Mouli, K.V. V.</b> and Antonio, S. "Effect of Core Rod Diameter on Wire Coil Inserts for Heat Transfer and Friction Factor of High-Prandtl Number Magnetic Fe <sub>3</sub> O <sub>4</sub> Nanofluids in a Fully Developed Laminar Flow", <i>Heat Transfer Research</i> Vol. 52, No.3, pp 49-75. (2021) ( <b>Begell House Publisher ISI Q4, Impact Factor 1.45</b> )
17	Syam Sundar, L. <b>Chandra Mouli, K. V. V.</b> Zafar, S and Antonio, S. "Heat Transfer and Second Law Analysis of Ethylene Glycol Based Ternary Hybrid Nanofluid under Laminar Flow," <i>ASME Journal of Thermal Science and Engineering Applications</i> Vol. 13, No.5, pp 051021 (2021) ( <b>ASME Publisher ISI Q3, Impact Factor 1.54</b> ).
18	Syam Sundar, L. Raman, E.V. Zafar, S. Raj Sekhar, Y. <b>Chandra Mouli, K.V. V.</b> and Antonio, S. "Heat Transfer, Energy and Exergy Efficiency Enhancement Nanodiamond/Water Nanofluids Circulate in a Flat Plate Solar Collector", <i>Journal of Enhanced Heat Transfer</i> , Vol. 28, No.2, pp 57-99. (2021) ( <b>Begell House Publisher ISI Q3, Impact Factor 1.45</b> ).
19	Syam Sundar, L. Raman, E.V. Zafar, Raj Sekhar, Y. <b>Chandra Mouli, K V V.</b> Antonio S. "Properties, Heat Transfer, Energy Efficiency and Environmental Emissions Analysis of Flat Plate Solar Collector Using Nanodiamond Nanofluids", <i>Diamond and Related Materials</i> , 110, 117450 (2020) ( <b>Elsevier Publisher - ISI Q2, Impact Factor 4.1</b> ).
20	Awan, A.B, <b>Chandra Mouli, K V V.</b> and Zubair, M. "Performance Enhancement of Solar Tower Power Plant: A Multi-objective Optimization Approach", <i>Energy Conservation and Management</i> , 225, 113378. (2020) ( <b>Elsevier Publisher - ISI Q1, Impact Factor 10.4</b> ).
21	Awan, A.B, Zubair, M and <b>Chandra Mouli, K V V.</b> "Design Optimization and Performance Comparison of Solar Tower and Photovoltaic Power Plants", <i>Energy</i> , 199, 15 May 2020, 117450, (2020) ( <b>Elsevier Publisher ISI Q1 Impact Factor 9.0</b> ).
22	<b>Chandra Mouli K V V.</b> , Srinivas, V., V. Vandana, Kodanda Ramarao Ch, Seetha Rama Rao Y, "Investigation of Tribological Properties and Engine Performance of Polyol Ester Based Bio-lubricant - Commercial Motorbike Engine oil Blends" <i>Journal of Automobile Engineering, Part D</i> , 234(5), pp. 130-1317 (2020) ( <b>SAGE Publisher - ISI Q3, Impact Factor 1.384</b> ).
23	Truong Khang Nguyen; M. Sheikholeslami; M. Jafaryar; Ahmad Shafee; Zhixiong Li; <b>Chandra Mouli K.V.V.</b> , I. Tlili "Design of Heat Exchanger with Combined Turbulator" <i>Journal of Thermal Analysis and Calorimetry</i> , 139, pp. 649-659 (2020) ( <b>Springer Publisher - ISI Q2, Impact Factor 2.731</b> )