Curriculum Vitae (CV)

Amro Hossam-Eldeen Altohamy Saleh

Personal Information:

Academic Rank: Assistant Professor

Department: Mechanical Engineering

Specialization: Heat Transfer

Position: Assistant Professor (6th of October Branch)

Google Scholar: https://scholar.google.com/citations?user=aopaejIAAAAJ&hl=en&oi=ao

Research Gate: https://www.researchgate.net/profile/A-Al-Tohamy

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Education:

Degree	Discipline	Institution	Year
PhD	Mechanical Engineering	FACULTY OF ENGINEERING – CAIRO UNIVERSITY	2019
MSc	Mechanical Engineering	SHOUBRA FACULTY OF ENGINEERING – BENHA UNIVERSITY	2013
BSc	Mechanical Engineering	HIGHER TECHNOLOGICAL INSTITUTE – 10TH OF RAMADAN CITY – 6TH OF OCTOBER BRANCH	2006

Academic Experience:

Institution: Higher Technological Institute – 10th of Ramadan City – 6th of October Branch

Rank: Assistant Professor

Dates: Jan. 2019 to present

Institution: Higher Technological Institute – 10th of Ramadan City – 6th of October Branch

Rank: Assistant Lecturer

Dates: Sept. 2013 to Jan. 2019

Institution: Higher Technological Institute – 10th of Ramadan City – 6th of October Branch

Rank: Teaching Assistant

Dates: Sept. 2006 to Sept. 2013

Research interests:

- Thermal hydraulics and computational fluid dynamics.
- Heat exchanger technologies.
- Renewable energy systems.

Publications:

- Amr Kaood, Omar A. Ismail, Amro H. Al-Tohamy, "Hydrothermal performance assessment of a parabolic trough with proposed conical solar receiver", Renewable Energy, Volume 222, February 2024, Article 119939. https://doi.org/10.1016/j.renene.2024.119939
- Amro H. Al-Tohamy, Olatomide G. Fadodun, Amr Kaood, "Hydrothermal performance of a turbulent nanofluid with different nanoparticle shapes in a duct fitted with various configurations of coiled-wire inserts", Journal of Thermal Analysis and Calorimetry, 2023. https://doi.org/10.1007/s10973-023-12241-x
- Muhammed A. Hassan, Amro H. Al-Tohamy, Amr Kaood, "Hydrothermal Characteristics of Turbulent Flow in a Tube with Solid and Perforated Conical Rings", International Communications in Heat and Mass Transfer, Volume 134, 2022, Article 106000. https://doi.org/10.1016/j.icheatmasstransfer.2022.106000
- E. E. Khalil, S. M. Morcos, W. AbdelSamie, T. AbouDeif, and A. H. Al-Tohamy, "Performance Simulation for Nondedicated Systems in Cinema Fires", Journal of Engineering and Applied Science, Vol. 65, No. 5, pp. 377-399, October 2018.
- Eed A. Abdel-Hadi, Sherif H. Taher and Amro H. Al-Tohamy, "An Experimental Study for Forced Evaporation of R134a inside Internally Finned Horizontal Tubes", Journal of Al Azhar University Engineering Sector, Vol. 8, No. 27, pp. 859-871, April 2013.

Certifications or Professional Registrations:

Honors and Awards:

- Certificate of Merit (academic excellence) - Higher Technological Institute "10th of Ramadan City, 6th of October Branch", 2004 & 2005.

Teaching Experience:

Dealing with credit hours system and taking responsibility for the overall direction of a course including teaching, preparation of exams and quizzes, correction of exams and quizzes, preparation of model answer and course report.

Technical Supervisor of the following bachelor's projects:

1- Enhancement of Heat Transfer via Air Bubbles Injection inside Shell-and-Coil Heat Exchanger.

2- Thermal Hydraulic Improvement of a Smooth Horizontal Tube using Diamond Turbulator Inserts.

3- Thermal Enhancement in a Solar Air Heater Channel using Perforated Delta Wing Vortex Generators.

Courses taught

- Thermodynamics 1, Thermodynamics 2, Fluid Mechanics, Thermo Fluid Lab, Heat & Mass Transfer, Renewable Energy, Thermal Power Station, Refrigeration Engineering, Air Conditioning, Turbo Machinery, Thermal Fluid Systems, Principles of Combustion, Mechanical Drawing, Computer Aided Drafting, Technical Reports, Selected Topics in Mechanical Engineering, Data Processing (MO Apps: Excel & Access), Engineering Economy, Engineering Ethics, History of Engineering & Technology, Basics of Engineering Drawing, Statics, Dynamics.