PERSONAL INFORMATION

Seifelislam Marzouk



- Egypt/ kafrelsheikh / Ardelzeraa, 33511 kafrelsheikh (Egypt)
- 0201019571819
- ≤ sef aleslam@eng.kfs.edu.eg
- ttps://www.mendeley.com/profiles/seif-marzouk/
- 1 https://orcid.org/0000-0002-6620-7747

POSITION University Assistant Lecturer

PRACTICAL EXPERIENCE

07/2020–Present University Assistant Lecturer

Kafrelsheikh University, Kafrelsheikh (Egypt)

02/2017-07/2020 University Teaching Assistant

Kafrelsheikh University, Kafrelsheikh (Egypt)

02/2017–3/2019 University Teaching Assistant

Higher Institute for Engineering and Technology, Kafrelsheikh (Egypt)

EDUCATION

09/2020-present

Ph.D. of Mechanical Engineering

3.9 GPA

Kafrelsheikh University, Kafrelsheikh (Egypt)

Title of thesis: Performance study of helically tube heat exchanger with novel configurations

09/2017-06/2020

Master of Mechanical Engineering

3.66 GPA

Kafrelsheikh University, Kafrelsheikh (Egypt)

Title of thesis: Thermo-hydraulic Performance Enhancement of Shell-and-tube Heat

Exchanger

09/2011-07/2016

Bachelor of Mechanical Engineering (Power Mechanics) Excellent (Honours) 91%

Kafrelsheikh University, Kafrelsheikh (Egypt)

Title of project: Design of 50 TR water chiller for air cooling of a building

RESEARCH INTERESTS

Heat and Mass Transfer, Heat Exchangers, Energy Applications, Thermal, and Hydraulic Engineering, Solar and Renewable Energy, Computational Fluid Dynamics, Numerical Simulation, Polymeric Fibber

PERSONAL EXPERIENCE

 SOLIDWORKS-AUTOCAD, ENDNOTE, MATLAB, GRAPHER, MICROSOFT, ANSYS FLUENT, ASPEN PLUS and ASPEN EXCHANGER

DESIGN AND RATING

- ANSYS Projects
 - Shell and tube heat exchanger
 - Plate heat exchanger
 - Solidification of water inside a bud
- ASPEN PLUS and ASPEN EXCHANGER DESIGN AND RATING projects
 - South Refineries Company -Crude oil Distillation Unit in Iraq
 - State Company of Fertilizers SR -Ammonia Unit in Iraq
 - State Company for Petrochemical Industries-Low Density Polyethylene (LDPE) plant in Iraq

COURSES

 Heat Transfer, Mechanics (Static and dynamics), Applied Mechanics, Computational Fluid Dynamics, thermodynamics, Heat Transfer, Fluid Mechanics, Internal Combustion Engines I, Internal Combustion Engines II, Measurements, Hydraulic Machines, Industrial Safety, Engineering Drawing and Projection, Machine Design

PUBLICATIONS

2023

2023

2023

2023

2023

JOURNAL PAPERS

2023

- 1. S. A. Marzouk, M. M. Abou Al-Sood, E. M.S. El-Said, M. M. Younes, and M. K. El-Fakharany, "Evaluating the effects of bifurcation angle on the performance of a novel heat exchanger based on contractual theory," Renew. Energ., vol. 219, p. 119463, 2023/12/01/ 2023, doi: https://doi.org/10.1016/j.renene.2023.119463.
- 2023 2. F. B. Baz, E. A. Elshenawy, S. A. El-Agouz, Y. A. F. El-Samadony and S. A. Marzouk, Experimental study on air impinging jet for effective cooling of multiple protruding heat sources, International Journal of Thermal Sciences 2024 Vol. 196 Pages 108707, DOI: https://doi.org/10.1016/j.ijthermalsci.2023.108707
 - 3. A. R. Al-darraji, S. A. Marzouk, A. Aljabr, F. A. Almehmadi, S. Alqaed, and A. Kaood, "Enhancement of heat transfer in a vertical shell and tube heat exchanger using air injection and new baffles: Experimental and numerical approach," Applied Thermal Engineering, vol. 236, p. 121493, 2024/01/05/2024, doi: https://doi.org/10.1016/j.applthermaleng.2023.121493.
 - **4. S. A. Marzouk**, A. Aljabr, F. A. Almehmadi, S. Alqaed, and M. A. Sharaf, "Numerical study of heat transfer, exergy efficiency, and friction factor with nanofluids in a plate heat exchanger," Journal of Thermal Analysis and Calorimetry, 2023/08/16 2023, doi: 10.1007/s10973-023-12441-5.
 - 5. S. A. Marzouk, M. M. Abou Al-Sood, E. M. S. El-Said, M. M. Younes, and M. K. El-Fakharany, "A comprehensive review of methods of heat transfer enhancement in shell and tube heat exchangers," Journal of Thermal Analysis and Calorimetry, vol. 148, no. 15, pp. 7539-7578, 2023/08/01 2023, doi: 10.1007/s10973-023-12265-3.
 - **6. S. A. Marzouk**, M. M. Abou Al-Sood, E. M. S. El-Said, M. K. El-Fakharany, and M. M. Younes, "Study of heat transfer and pressure drop for novel configurations of helical tube heat exchanger: a numerical and experimental approach," Journal of Thermal Analysis and Calorimetry, (2023) https://doi.org/10.1007/s10973-023-12067-7
 - **7. S.A. Marzouk**, M.M. Abou Al-Sood, E.M.S. El-Said, M.M. Younes, M.K. El-Fakharany, Experimental and numerical investigation of a novel fractal tube configuration in helically tube heat exchanger, International Journal of Thermal Sciences, 187 (2023) 108175.
- **8. S.A.Marouk**, M. elfakharany, and F. Baz, "Heat transfer performance of particle solar receiver: Numerical study," Heat Transfer Research, 2022. Available: DOI:

10.1615/HeatTransRes.2022041384

2022	9. S. A. Marzouk, M. M. A. Al-Sood, M. K. El-Fakharany, and E. M. S. El-Said, "A comparative numerical study of shell and multi-tube heat exchanger performance with different baffles configurations," International Journal of Thermal Sciences, vol. 179, p. 107655, 2022/09/01/ 2022. Available: https://www.sciencedirect.com/science/article/pii/S1290072922001922	
2020	10. S. A. Marzouk , M. M. Abou Al-Sood, M. K. El-Fakharany, and E. M. S. El-Said, "Thermo-hydraulic study in a shell and tube heat exchanger using rod inserts consisting of wire-nails with air injection: Experimental study," International Journal of Thermal Sciences, p. 106742, 2020/11/27/ 2020. Available: http://www.sciencedirect.com/science/article/pii/S1290072920311868	
2019	11. S.A. Marzouk, M.M. Abou Al-Sood, E.M.S. El-Said, M.K. El-Fakharany, Effect of wired nails circular—rod inserts on tube side performance of shell and tube heat exchanger: Experimental study, Applied Thermal Engineering, (2019) 114696 https://doi.org/10.1016/j.applthermaleng.2019.114696	
	CONFERENCE PAPERS	
2023	S.A. Marzouk , Numerical Study of Heat Transfer Enhancement in Double Tube Heat Exchanger Fitted with Spring Wire, 2 nd international engineering conference and exhibition (IECE 2023), Riyadh, Kingdom of Saudi Arabia.	
AWARDS		
2020	International Scientific Publishing A	ward Kafrelsheikh University, Egypt
2021	International Scientific Publishing A	ward Kafrelsheikh University, Egypt
2022	International Scientific Publishing A	ward Kafrelsheikh University, Egypt
TRAINING, RESEARCH PROGRAMS	Program	Institution
22-1-2023	Research Methodology	Nature Research Academies
15-1-2023	Writing A Research Paper	Nature Research Academies
4-1-2023	Grant Writing	Nature Research Academies
2-1-2023	Effective Communication	National Center for Faculty and Leadership Development
1-2-2023	Digital transformation	Central Unit of IT Transformation
3-10-2022	Managing Time and Meetings	National Center for Faculty and Leadership Development
12-12-2022	Preparing Competitive Research Projects	National Center for Faculty and Leadership Development
5-6-2021	Credit Hours System	National Center for Faculty and Leadership Development

REVIEW AND ADVISORY PANELS

2-8-2021

14-3-2020

Peer reviewer for Jordan Journal of Mechanical and Industrial Engineering

National Center for Faculty and Leadership Development

National Center for Faculty and Leadership Development

Peer reviewer for Journal of Process Mechanical Engineering

University Teacher Preparation

Scientific Publication