

CV



Name **Asst. Prof. Dr Khaled A. J. AL-FARHANY**

Room Number: 18, Lecturer Building, Mechanical Dep., College of Engineering, Al-Qadisiyah, Iraq

Telephone: +964 (0)7830763523

Postbox : Al-Qadisiyah 295

Emails: khaled.alfarhany@yahoo.com
khaled.alfarhany@qu.edu.iq

websites:

[Scopus Author ID: 37064271600](https://scopus.com/authid/detail.url?authorID=37064271600)

<http://orcid.org/0000-0002-5806-3800>

[ResearcherID: M-2670-2017](https://pubs.rsos.royalsocietypublishing.org/author/M-2670-2017)

<http://qu.edu.iq/staff/khaledalfarhany/>

<https://www.linkedin.com/in/dr-khaled-al-farhany-75104152/>

<https://scholar.google.com/citations?user=w5XV7wsAAAAJ&hl=en>

Qualifications

- B.Sc. Of Mechanical engineering, university of Mosul, Mosul, Iraq, 1999.
- M.Sc. (Mechanical engineering/ Refrigeration and Air Conditioning), university of Mosul, Mosul, Iraq, 2002.
- Ph.D. (Mechanical engineering/ Heat and mass transfer), The University of Manchester, Manchester, UK, 2012.

Language:

- Arabic (mother language) Excellent
- English Excellent

Membership of Professional Associations:

- Member of the Iraqi Engineering Association, No. 88 653, year 1999
- Member of scientific and engineering services bureau of The University of Al-Qadisiyah from 2003-2006
- Member of Manchester Alumni, year 2012

Current Positions:

- Head of Mechanical Engineering since 2014.
- Chief of editorial board of Al-Qadisiyah Journal of Engineering Sciences.
- HVAC Designer of scientific and engineering services beauru of The University of Al-Qadisiyah

Research Group and Group Membership

- Energy & Multiphysics.
- Computational Fluid Dynamics (CFD) Group.
- Thermal Mechanical Engineers.
- Porous Materials Inc.
- Refrigeration & Air-conditioning Professionals.

Specific research interests

- Flow, heat and mass transfer in porous medium.
- CFD studies of MHD convection heat and mass transfer in porous medium.
- Nano-fluid heat transfer.
- Soret and Dufour effects in porous medium.
- Refrigeration and air conditions system.
- Renewable Energy.
- Energy Simulation, Green Buildings.
- Solar energy.

Experience

- Lecturer in University of Al-Qadisiyah since 2002.
- Teaching Assistant in School of MACE, University of Manchester, UK from 2009-2012.

Teaching

- Advance Heat Transfer (MSc.)
- Heat Transfer
- Mechanical Engineering
- Mechanical Drawing by using SolidWorks
- Engineering Drawing
- Refrigeration and Air condition
- FORTRAN language
- MatLab

Skills & Endorsements

- CFD
- FORTRAN language
- MatLab
- COMSOL
- SolidWorks
- ANSYS
- FLUENT
- Grapher and TecPlots
- AutoCAD
- Revit MEP

Published articles and conference papers:

Journal Papers

2019

15. Al-Farhany K., Turan A. (2019). Double-Diffusive of Natural Convection in an Inclined Porous Square Domain Generalized Model. Al-Qadisiyah Journal for Engineering Sciences. 12(3): p. 151-160 <https://doi.org/10.30772/qjes.v12i3.612>
14. Barik A.-M., Al-Farhany K. (2019). Numerical Investigation of the Effect of Baffle Inclination Angle on Nanofluid Natural Convection Heat Transfer in A Square Enclosure. Al-Qadisiyah Journal for Engineering Sciences. 12(2): p. 61-71. <https://doi.org/10.30772/qjes.v12i2.589>
13. Hamzah, D.A., Al-Farhany, K. (2019). Effect of twisted tape ratio on the solar generator half-length pipe. International Journal of Heat and Technology, Vol. 37, No. 2, pp. 407-412. <https://doi.org/10.18280/ijht.370205>

2018

12. Abdulkadhim A., Al-Farhany K., Abed A.M. (2018). Effect of adiabatic circular cylinder on the natural convection heat transfer characterizes in a porous enclosure. Chemical Engineering Transactions. 71: p. 1309-1314. <http://DOI: 10.3303/CET1871219>
11. Abdulkadhim A., Abed A.M., Mohsen A.M., Al-Farhany K. (2018). Effect of partially thermally active wall on natural convection in porous enclosure. Mathematical Modelling of Engineering Problems. 5(4): p. 395-406 <http://DOI: 10.18280/mmep.050417>
10. Al-Farhany K., Abdulkadhim A. (2018). Numerical simulation for conjugate natural convection in a partially heated rectangular porous cavity. Journal of Engineering and Applied Sciences. 13(16): p. 6823-6832 <http://DOI: 10.3923/jeasci.2018.6823.6832>
9. Al-Chlaihawi K.K.I., Al-Farhany K., Al-Rubaye A.T. (2018). Experimental investigation of solar thermal collector on the open parabolic trough. Journal of Engineering and Applied Sciences. 13(16): p. 6873-6878. <http://DOI: http://dx.doi.org/10.3923/jeasci.2018.6873.6878>
8. Hamzah D.A., Hamza N.H., Al-Dawody M.F., Al-Farhany K. (2018). Enhancement of thermal and performance of multiple pass heat exchanger using nanoparticles. International Journal of Mechanical and Production Engineering Research and Development. 8(4): p. 969-980
7. Al-Rubaye A., Al-Farhany K., Al-Chlaihawi K. (2018). Performance of a portable thermoelectric water cooling system. International Journal of Mechanical Engineering and Technology. 9(8): p. 277-285
6. Abdulkadhim, A., Abed, A. and Al-Farhany, K., 2018. COMPUTATIONAL

INVESTIGATION OF CONJUGATE HEAT TRANSFER IN CAVITY FILLED WITH SATURATED POROUS MEDIA. *Frontiers in Heat and Mass Transfer (FHMT)*, 11.12. <http://dx.doi.org/10.5098/hmt.11.12>

5. Al-Farhany K.,Abdulkadhim A. (2018). Numerical investigation of conjugate natural convection heat transfer in a square porous cavity heated partially from left sidewall. *International Journal of Heat and Technology*. 36(1): p. 237-244. <http://DOI: 10.18280/ijht.360132>
4. Al-dawody, M.F. and Al-Farhany, K., 2018. A Comparative Analysis of Diesel Engine Fuelled with Diesel Fuel and Methyl Ester of Waste Cooking Oil. *International Journal of Applied Engineering Research*, 13(1), pp.14-20. https://www.ripublication.com/ijaer18/ijaerv13n1_03.pdf

2012

3. Al-Farhany K.,Turan A. (2012). Numerical study of double diffusive natural convective heat and mass transfer in an inclined rectangular cavity filled with porous medium. *International Communications in Heat and Mass Transfer*. 39(2): p. 174-181. <https://doi.org/10.1016/j.icheatmasstransfer.2011.11.014>

2011

2. Al-Farhany K.,Turan A. (2011). Unsteady conjugate natural convective heat transfer in a saturated porous square domain generalized model. *Numerical Heat Transfer; Part A: Applications*. 60(9): p. 746-765. <https://doi.org/10.1080/10407782.2011.627793>
1. Al-Farhany K.,Turan A. (2011). Non-Darcy effects on conjugate double-diffusive natural convection in a variable porous layer sandwiched by finite thickness walls. *International Journal of Heat and Mass Transfer*. 54(13-14): p. 2868-2879. <https://doi.org/10.1016/j.jheatmasstransfer.2011.03.012>

Conference Papers

4. H R Jasim, N Sanke, K Al-Farhany “Heat Transfer Simulation of Gas Turbine Blade with Film Cooling”.2018. National Conference on Advances in Mechanical Engineering and Nanotechnology (AMENT2018). pp 73-82. 29-30 June, 2018, Hyderabad, TS, India.
3. Al-Farhany, K., A. Turan, and J. Ma. Non-Darcy Effects on Double Diffusive Natural Convection Heat and Mass Transfer in Inclined tall Porous Cavities. in 4th International Symposium on Heat Transfer and Energy Conservation (ISHTEC2012). PP TC02-003. 6-9th January 2012, Guangzhou, China.
2. Al-Farhany, K., Numerical Study of Double Diffusive Natural Convective Heat and Mass transfer in porous cavities. in 1st conference of engineering since. 1-2nd October 2011. Iraqi cultural attaché, London, UK.

1. Al-Farhany K, Turan A. “Non-Darcy Effects on Conjugate Natural Convection in Saturated Porous Layer”. Tenth International Congress of Fluid Dynamics (ICFD10). pp ICFD10-EG-3018. 16-19 December 2010.