

Mohammad Aqeel Saraireh

Professor

Mechanical Engineering Department

Faculty of Engineering

Mutah University, Alkarak, Jordan

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EDUCATION

VICTORIA UNIVERSITY, Melbourne, Australia

Doctor of Philosophy in Mechanical Engineering **2012**

Thesis Title: Heat Transfer and Condensation of Water Vapour from Humid Air in Compact Heat Exchangers.

VICTORIA UNIVERSITY, Melbourne, Australia

Master of Engineering in Mechanical Engineering **2008**

MU'TAH UNIVERSITY, Alkarak, Jordan

Bachelor of Engineering in Mechanical Engineering **2006**

JAFAR SCHOOL, Alkarak, Jordan

General Secondary Certificate in Scientific Stream **2001**

WORK HISTORY

Associate Professor in Mechanical Engineering, Mutah University, Jordan 2018 - Present

Associate Professor in Mechanical Engineering, Al-Balqa Applied University, Jordan,
Sabbatical leave 2020 - 2021

Head of Mechanical Engineering Department, Mutah University, Jordan 2018 - 2019

Assistant Professor in Mechanical Engineering, Mutah University, Jordan 2012 – 2018

Research Assistant in Mechanical Engineering, Victoria University, Australia 2008 – 2009

TEACHING AND RESEARCH INTERESTS

Courses Taught

Undergraduate level courses:

- Heat Transfer
- Thermodynamics
- Fluid Mechanics
- Computational Fluid Dynamics
- Numerical Methods
- Engineering Control
- Heating Ventilation and Air Conditioning
- Refrigeration
- Energy Conversion

Postgraduate level courses:

- Advanced Fluid Mechanics
- Thermal-Fluid sciences
- Maintenance Management

Research Interests

- Thermodynamics
- Heat transfer
- Thermoelectric generator
- Thermo-fluid science
- Power Generation

DEPARTMENTAL ACTIVITIES

- Member of the Postgraduate Committee
- Member of the Library Committee
- Member of Research Committee
- Member of Quality Assurance Committee

MEMBERSHIPS

- Member of the Jordan Engineers Association
- Member of The Association of Professional Engineers Australia

AWARDS

- Mutah University PhD Scholarship (2009 -2012).
- First Rank in Bachelors in Mechanical Engineering, Awarded by Mutah University, Jordan, 2006.

TECHNICAL SKILLS

- Understanding and application of softwares like MATLAB, CFD (FLUENT) and AutoCAD
- Proficient with the use of Windows and Microsoft Office.

LANGUAGES

Arabic: Native

English: Proficient

PUBLICATIONS

Journals

- **Saraireh, M.**, "A Novel Method for Heat Exchange Evaluation in EV," *Intelligent Automation & Soft Computing*, vol. 36, no.1, pp. 57–70, 2023.
- **Saraireh, M.**, Maqableh, A. M., Jaradat, M. and Saraireh, O. A. "A Novel Method for Thermoelectric Generator Based on Neural Network," *Computers, Materials & Continua*, vol. 73, no.1, pp. 2115–2133, 2022.
- **Saraireh, M.** "Experimental and Numerical Thermal Study of Triple Pipe Heat Exchanger." *International Journal of Simulation--Systems, Science & Technology* 19.4, 2018.
- **Saraireh, M.** Thermal Performance of Heat Conduction in a Square Plate. *International Journal of Simulation, Systems, Science and Technology*, 18, (4), pp. 14.1-14.4, 2017.
- **Saraireh, M.** Computational fluid dynamics simulation of plate fin and circular pin fin heat sinks. *Jordan Journal of Mechanical and Industrial Engineering*, 10 (2), pp. 99-104, 2016
- **Saraireh, M.** Numerical study of cross flow heat exchanger, *International Journal of Applied Engineering Research*, 11 (18), pp. 9584-9588, 2016.
- **Saraireh, M.**, Alsaraireh, F., Alrawashdeh, S. Investigation of heat transfer for staggered and in-line tubes. *International Journal of Mechanical Engineering and Technology*, 8 (11), pp. 476-483, 2017.
- **Saraireh, M.** Natural convection heat transfer from extended surfaces on vertical base. *Journal of Engineering and Applied Sciences*, Accepted for publication.
- **Saraireh, M.** Simulation of Steady-State and Dynamic Behaviour of a Plate Heat Exchanger. *Journal of Energy and Power Engineering* 10, pp.555-560, 2016.
- Li, J.-D., **Saraireh, M.** & Thorpe, G., Condensation of vapor in the presence of non-condensable gas in condensers. *International Journal of Heat and Mass Transfer*, 54, 4078-4089, 2011.

Conference proceedings

- **Saraireh, M.**, Thorpe, G. & Li, J.-D. Simulation of Heat and Mass Transfer Involving Vapor Condensation in the Presence of Non-Condensable Gases in Plane Channels. *ASME Conference Proceedings*, T10026-T10026-10, 2011.
- **Saraireh, M.**, Li, J. D. & Thorpe, G. R. Modelling of Heat and Mass Transfer Involving Vapor Condensation in the Presence of Non-Condensable Gases. *17th Australasian Fluid Mechanics Conference*. Auckland, New Zealand, 2010.
- **Saraireh, M.** & Tran, D. Generating frequency response functions (FRF) from time signals of accelerations, *20th Australasian Conference on the Mechanics of Structures of Materials*, Queensland, Australia, 2009.