

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 Saraereh, 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.**, Alsaraiereh, 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.