



# Amro Owes

Associate Professor

## Personal Data

Nationality | Egyptian

Department | Mechanical and Energy Engineering

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## Language Proficiency

Language	Read	Write	Speak
Arabic	Very good	Very good	Very good
English	Very good	Very good	Very good

## Academic Qualifications (Beginning with the most recent)

Academic Degree	Place of Issue	Address
Ph.D. degree in Mechanical Power Engineering	Faculty of Power and Aeronautical Engineering	Warsaw, Poland
M.Sc. degree in Mechanical Power Engineering	Faculty of Engineering, Zagazig University	Zagazig, Egypt
B.Sc. in Mechanical Power Engineering	Faculty of Engineering, Alexandria University	Alexandria, Egypt

## PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Experimental and Numerical Investigation of the Melting Phenomenon of Encapsulated PCM in Horizontal Cylindrical Annuli. (with distinction)
Master	Performance of Cross Flow Water-Spray Humidifiers under Adiabatic and Non-Adiabatic Saturation Condition.

## Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		
Associate professor	Faculty of Engineering	Imam Abdulrahman Bin Faisal University	Dammam, Saudi Arabia
Associate professor	Faculty of Engineering	Zagazig University	Egypt
Assistant professor	Faculty of Engineering	Zagazig University	Egypt



## Scientific Achievements

### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	M. U. Siddiqui, Amr Owes, F. G. Alamri and Farooq Saeed	Recent Developments in the Search for Alternatives Low-Global-Warming-Potential Refrigerants: A Review	Int. Journal of Air-Conditioning and Refrigeration, Vol. 28, No. 3, 2020
2	Amr Owes Elsayed, T.S. Kayed	Dynamic performance analysis of inverter-driven split air conditioner	Int. Journal of Refrigeration, 118, 443-452, 2020
3	Amr Owes Elsayed	Management of Condenser Fan Speed and its Influence on the Split Air Conditioner Performance	Global Journal of Energy Technology Research Updates, 6, 41-48, 2019
4	Amr Owes Elsayed	Numerical investigation of heat transfer from multi-bulges pins	Case Studies in Thermal Engineering, 12, 636-643, 2018
5	Amr Owes Elsayed	Numerical investigation on PCM melting in triangular cylinders	Alexandria Engineering Journal, Vol. 57, 2819-2828, 2018
6	Amr Owes Elsayed	Numerical study on performance enhancement of solid-solid phase change materials by using multi-nanoparticles mixtures	Journal of Energy Storage, Vol. 4, 106-112, Dec. 2015
7	E. Z. Ibrahim, Amr O. Elsayed	Heat Transfer Performance of Semi-Circular Tube Bank	Heat Transfer Research Journal, 46(6), 563-576, 2015
8	Amr O. Elsayed	Numerical Study of Ice Melting inside Rectangular Capsule under Cyclic Temperature of Heat Transfer Fluid	Energy Conversion and Management Journal, Vol. 48, pp 124-130



### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Amr O. Elsayed and A. Hariri	Effect of Condenser Air Flow on the Performance of Split Air Conditioner	World Renewable Energy Congress 8-11 May 2011, Linköping, Sweden

### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Amr O. Elsayed, T.S. Kayed	Performance Characteristics of Split Air Conditioner Working with Nano-Refrigerant	Sep.,2014
2	Omar Aga, Amr O. Elsayed	Optimization of Ventilation Regimes and Indoor Air Quality in Surgical Operating Rooms	Nov.,2013
3	F. G. Alamri, M. U. Siddiqui and Amr Owes	Study of alternative refrigerant's characteristics and their validity for the employment and use in Kingdom of Saudi Arabia.	May 2018

### Membership of Scientific and Professional Societies and Organizations

- Consultant of refrigeration and air conditioning systems at the Egyptian Engineers Syndicate
- Editorial board member at Journal of Solar Energy Research Updates
- Reviewer at Applied Thermal Engineering, Energy Conversion and Management journals

### Teaching Activities

#### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Steam Power Production	ENRG 504	All semester
2	Refrigeration & Air Conditioning	ENRG 404	All semester
3	Energy Storage	ENRG-510	All semester
4	Thermodynamics, Heat and Mass Transfer	ENG 441	All semester
5	Thermodynamics	ENG 352	All semester



### Student Academic Supervision and Mentoring

#	Level	Number of Students
1	Senior design project I	3
2	Senior design project II	3

### Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

#### Committee Membership

#	Position	Organization
1	Member of continuous learning committee	College of Engineering
2	Member of lab development committee	College of Engineering
3	Member of scientific research committee	Dept. Of Mechanical and Energy Engineering
4	Member of lab maintenance committee	Dept. Of Mechanical and Energy Engineering
5	Member of the Scientific Research Committee of the Department	College of Engineering

### Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Ansys. Fluent, C++, Corel Draw, Sigma Plot
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Last Update 14/03/2021