

Curriculum Vitae

Mishaal A. AbdulKareem

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PERSONAL SUMMARY:

- Peer reviewer of Heat and Mass Transfer Journal – Springer
- 16+ years of Academic experience.
- 6 published research papers.
- 3 published Text Book.
- 4+ years experience in operation and maintenance of ; Cryogenic & Steam Turbines, Cryogenic & Hydrocarbon pumps, Gas Compressors, large Cooling Tower Equipment (Pumps & Fans), Distillation & Air Separation Units and Air Purification Units.
- 7 months experience of TIG & Arc Welding Supervisor of the erection of Ethylene units.
- Excellent Mathematical Modeling and FVM Simulation skills
- Professional user: Microsoft Office 2016, ANSYS- Fluent, Engineering Equation Solver EES, FORTRAN, MATLAB.
- Excellent planning, organizational skills
- Excellent verbal, written communication skills

EDUCATION:

- Ph.D. Thesis: *Numerical Investigation of the Cavitation in Pump Inducer.*
Mechanical Engineering Department, College of Engineering, University of Baghdad (2008)
- M.Sc. Thesis: *Simulation and Optimization of a Combined Reheat-Regenerative Steam Power Plant.*
Mechanical Engineering Department, College of Engineering, University of Baghdad (1994)
- B.Sc. Graduation Project: *Performance Enhancement of Evaporative Air Cooling System*
Mechanical Engineering Department, University of Technology (1987)

ACADEMIC HONORS AND AWARDS:

- #1: Certificates, # 4791/3/14 in 4/11/2008 - Dean
- #2: Certificates, #407/5/14 in 23/6/2008 - Dean

ACADEMIC /TEACHING EXPERIENCE:

- 12+ years, Assistant Professor at AL-Mustansiriyah University, Faculty of Engineering, Mechanical Engineering Department - Iraq
- 3 years, Lecturer at AL-Tahadi University, College of Engineering, Mechanical Engineering Department - Libya
- 1 year, Lecturer at Higher Institute of Refrigeration and Air-Conditioning - Libya



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COURSES TAUGHT:

Undergraduate	Graduate
<ul style="list-style-type: none">• Power Plant Engineering• Refrigeration & Air Conditioning• Heat Transfer• Thermodynamics• Mathematics I• Statics• Programming with FORTRAN language• Graduation projects supervisor	<ul style="list-style-type: none">• Computational Fluid Dynamics - CFD (M.Sc. Students)• English Language - (Ph.D. & M.Sc. Students)

PROFESSIONAL AFFILIATIONS:

- Chairman, Diversity Committee
- President,

PUBLICATIONS:

- **Text Books**

1. Heat Transfer in Cryogenic Vessels: Analytical Solution & Numerical Simulation
2. Numerical Investigation of the Cavitation in Pump Inducer: Simulation Using the Finite Volume Method
3. Advanced Analytical Solution of Transient Heat Conduction: Spherical & Cylindrical Coordinates

- **Papers**

1. Numerical Investigation of Transient Heat Conduction through a Thermal Insulation of Temperature Dependent Thermal Properties
2. Analytical Solution of Transient Heat Conduction through a Hollow Spherical Thermal Insulation Material of a Temperature Dependent Thermal Conductivity
3. Analytical Solution of Transient Heat Conduction through a Hollow Cylindrical Thermal Insulation Material of a Temperature Dependent Thermal Conductivity
4. Numerical Simulation of Ice Melting Using the Finite Volume Method
5. Estimating the Steam Generator Performance by using the Heat-Loss Method
6. Numerical Investigation of the Cavitation in Pump Inducer

PROFESSIONAL DEVELOPMENT

- Certifications.
CRYOGENIC MACHINERY AND INSTALLATIONS - TURBINES (Feb 1989)
Cryostar - He'singue, FRANCE SA (A member of the BOC Group)

LIQUIFACTION (Jan 1989, Feb 1989, License #07618)
CENTRE DE PERFECTIONNEMENT AIR LIQUIDE - FRANCE
- Conferences. The 6th Engineering Conference, College of Engineering, University of Baghdad, Apr 2009
- Workshops.