



Karim Maghsoudi Mehrabani

Associate professor of Mechanical Engineering

fluid Mechanics / Energy Conversion

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Summary:

Working in academia for 37 years with experience in teaching Mechanical Engineering Courses and having research focus in the area of Energy and Exergy (thermodynamics field), Repowering steam power plant, Fuel Cell, Desalination of sea water & Solar Energy.

Teaching & Training History

- 1- Faculty Member of Shahid Rajaei University about 26 Years.
- 2- Teaching Some Courses in Khajeh Nasir Toosi University about 5 years.
- 3- Teaching Some Courses in Islamic Azad University Central Tehran Branch about (for) 10 years.
- 4- Teaching Some Courses in Technical and Vocational University Central Tehran Branch about 20 years.

Education History (in reverse order)

2007: Ph.D.

Mechanical Engineering (Energy Conversion)
Tabriz University (governmental)
Tabriz-IRAN

1994: Master of Science

Mechanical Engineering (Energy Conversion)
Tarbiat Modares University
Tehran - IRAN

1988: Bachelor of Science

Mechanical Engineering (Fluid Mechanics)
Nikbakht University
Zahedan - IRAN

Lecture History on the following Courses

- 1- Fluid Mechanics
- 2- Heat Transfer
- 3- Thermodynamics
- 4- Advanced Thermodynamics
- 5- Strength of Materials
- 6- Statics and Mechanic of Material
- 7- Specialty English Language
- 8- Fluid Mechanics Lab.

Work (Position) History

- 1- Dean of the Faculty (Mechanical Engineering School)
2. Deputy of Education & Research (Mechanical Engineering School)
- 3- Deputy of Technical & Student Affairs (Mechanical Engineering School)
- 4- Head of the Fluid Engineering Department.
- 5- Head of the Office of Entrepreneurship and Relation with Society in University.
- 6- Head of the Recruitment Dept. for Faculty Members.
- 7- Head of the Presidential Domain.
- 8- Head of the Board of Trustees.

Journal Papers

Title	Journal	Year
using two types of heat recovery steam generator for full repowering a steam power plant and its analysis by exergy method	INDIAN JOURNAL OF SCIENTIFIC RESEARCH	2014
optimization of exergy in repowering steam power plant by feed water heating using genetic algorithm	INDIAN JOURNAL OF SCIENTIFIC RESEARCH	2014
INVESTIGATION OF EFFECTIVE PARAMETERS ON PERFORMANCE OF MED-TVC FOR DESALINATION OF CASPIAN SEA WATER	INTERNATIONAL JOURNAL OF CURRENT LIFE SCIENCES	2014
Irreversibility and Electrochemical Modeling of GT-SOFCmHybrid System and Parametric Analysis on Performance of Fuel Cell	World Academy of Science, Engineering and Technology	2015
Thermoeconomic investigation of coupling MED-TVC with a combined cycle power plant	Desalination and Water Treatment	2015
EVALUATION OF UTILITY SECTOR OF iran BY ENERGY AND EXERGY ANALYSIS	journal of mathematics and technology	2015
STUDY OF THE EFFECT OF USING DUCT BURNER ON THE FUNCTIONAL PARAMETERS OF THE TWO REPOWERED CYCLES THROUGH EXERGY ANALYSIS	Thermal Science	2017
Experimental study and application of computational fluid dynamics on the prediction of air velocity and temperature in a ventilated chamber	Journal of Computational and Applied Research in Mechanical Engineering - JCARME	2019
Study of GDI injector in constant volume chamber by optical measurements and CFD-Simulation	تحقیقات موتور	2023