

Amin Habibzadeh

Email:amin.habibzadeh@yahoo.com

Mobile:(0098)09143475671

Date of Birth: February. 29th,1984

City of Birth: Urmia, Iran

Martial Status: Married

Sex: Male

Education

- Master of Science in Mechanical Engineering (Energy Conversion), Bu-Ali Sina University, Hamedan, Iran, 9/2008-12 /2011.
GPA: 14.79/20 (the average GPA in ME department is 14)
Thesis "Study of natural convection heat transfer in a square cavity with baffle utilizing the mixture of fluid and nanoparticles (nanofluid)"
- Bachelor of Science in Mechanical Engineering (Heat and fluids), Urmia University, Urmia, Iran, 9/2003-9/2007.
GPA: 14.41/20
Thesis "GDI engine and its simulation by FIRE"
- High School Diploma in Physics and Mathematics. Imam Khomeini High School, Urmia, Iran, 1998-2001.
GPA: 17.56/20.

Honors

- A member of Elites Institute.
- Having PET degree in English from Cambridge University.

Languages

- Azari: Native, Persian: Native, English: Fluent, Arabic: Fair.

Teaching Experience

- Teaching English at Ehsan Green Reflection Institute, Urmia, Iran. (2004, up to now).
- Teaching fluids, heat transfer, mathematics, strength of Materials and control to Mechanical engineering and Civil Engineering students.(2008, up to now)
- Teaching mathematics and English to the high school students. (2008, up to now)

Fields of interest

- Renewable energies
- Power and refrigeration cycles
- Ejector refrigeration cycles
- Heat transfer using nanofluids

Computer skill

- Programming Language: C/C++, Matlab.
- Application software: Fluent, EES, FIRE.
- Microsoft Office: Word, Excel, PowerPoint.

Work experiences

- English teacher (2004, up to now)
- Working as an apprentice at Oj Kara elevator company.
- Working as an apprentice at urmia Sugar Factory.
- Working as an apprentice at Aria Sabokbal airplane factory.

Journal Papers

- 1- Rashidi, M. M., Bég, O. A. and **Habibzadeh, A.** (2012), First and second law analysis of an ejector expansion Joule–Thomson cryogenic refrigeration cycle. Int. J. Energy Res., 36: 231–240. (*ISI*)
- 2- **A. Habibzadeh**, M. M. Rashidi, N. Galanis, “Analysis and optimization of a combined power and ejector-refrigeration cycle using low temperature heat”. Energy conversion and management. 2012. (*ISI*)
- 3- H. Sayehvand, **A. Habibzadeh**, A. Mekanik, “CFD analysis of natural convection heat transfer in a square cavity with partitions utilizing Al₂O₃ nanofluid”. International journal of nanodimension.2(3): 191-200, Winter 2012. (*ISC*)
- 4- **Amin Habibzadeh**, Habibollah Sayehvand, and Abolghasem Mekanik, "Numerical Study of Natural Convection in a Partitioned Square Cavity Filled with Nanofluid," International Journal of Chemical Engineering and Applications. Vol. 2, No. 4, pp. 269-274, 2011.
- 5- M. M. Rashidi, **A. Habibzadeh**, “Energy and exergy analysis of ejector expansion Joule-Thomson cryogenic cycle for different refrigerants”, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy. (*In review*)
- 6- M. M. Rashidi, N. Galanis, **A. Habibzadeh**, “Comparative study of different working fluids for use in a combined power and ejector refrigeration cycle using low temperature heat sources”. International Journal of Energy Research. (*In review*)
- 7- **A. Habibzadeh**, M. M. Rashidi, N. Galanis, “Thermodynamic analysis of different working fluids used in Organic Rankine Cycle for recovering waste heat from GT-MHR”. Thermal science journal. (*In review*)

Conference papers

- 1- **A. Habibzadeh**, M.M. Rashidi, N. Galanis, "Optimization of a combined power and ejector refrigeration cycle using low temperature waste heat". First International Seminar on ORC Power Systems, 22-23 September 2011, Aula conference center, TU Delft, The Netherlands.
- 2- M.M. Rashidi, N. Galanis, **A. Habibzadeh**, " Combined power and refrigeration cycle for geothermal heat sources". First International Seminar on ORC Power Systems, 22-23 September 2011, Aula conference center, TU Delft, The Netherlands.
- 3- **A. Habibzadeh**, A. Mekanik, H. Sayehvand," Analysis of Heat Transfer in a Partitioned Al₂O₃-water Filled Cavity". International Congress on Nanoscience & Nanotechnology (ICNN2012) 8 - 10 September 2012, Kashan, I. R. Iran.
- 4- **A. Habibzadeh**, A. Mekanik, H. Sayehvand," Buoyancy Driven Heat Transfer in a Nanofluid Filled Partitioned Square Cavity ". International Congress on Nanoscience & Nanotechnology (ICNN2012) 8 - 10 September 2012, Kashan, I. R. Iran.
- 5- **A. Habibzadeh**, M.M. Rashidi, "The study of combined power and ejector refrigeration cycle using low temperature heat source". Third thermodynamic conference, Rasht,Iran. 14-15 October 2011.(In Persian)
- 6- **A. Habibzadeh**, M.M. Rashidi, "The investigation of different working fluids in combined power and refrigeration cycles". Third thermodynamic conference, Rasht,Iran. 14-15 October 2011.(In Persian)

Interests and activities

- Mount climbing
- Swimming
- Playing soccer