

"Resume (1/Jan/2014)"
Mohammad Hassan Jalaledin Abyaneh

Educations:

- 2003 ~ 2013** Azad University of Research & Science Branch
PHD; (Honorable Student with a G.A. 18.25 over 20)
Major: Mechanical Engineering, **Minor:** Energy Transfer,
Thesis: *Numerical and Experimental Analysis of Absorption of Water Vapor in a Laminar Flow Falling Film of LiBr+H₂O over Horizontal Elliptical Tube*
- 1992 ~ 1995** Azad University of Tehran South Branch
Master of Science Degree; (Honorable Student with a G.A. 16.93 over 20)
Major: Mechanical Engineering, **Minor:** Energy Changing,
Thesis: *Computer Modeling and Analysis of the Production Plant Design for Construction of Single Effect - Direct Gas Fired LiBr-H₂O Absorption Chillers (Air Cooled Model).*
- 1989 ~ 1992** Azad University of Tehran South Branch
Bachelor of Science Degree; (With a G.A. 16.86 over 20)
Major: Mechanical Engineering, **Minor:** Fluid Mechanics.
Thesis: *Thermodynamics Modeling for Otto Cycle (The Ideal Cycle for Spark Ignition Engines)*
- 1985 ~ 1988** Mazandran University, Babol.
Associate of Science Degree;
Major: Mechanics **Minor:** Automobile Industries

Work Experiences:

- 1995 ~ Present** Faculty Member of Azad University of Tehran South Branch
- 1999 ~ May/2007** Chief Eng. of Naghashian Factory (NF), Tehran. (Experienced in Absorption Chillers, Heat Exchangers, and Boilers etc.)
- 2007 ~ Present** Manager and R&D in VIUNA HVAC Ind. (Experienced in single and double effects Absorption Chillers in all of kinds, Heat Exchangers, and High Temperature Generator)
- 2000 ~ Present** Adviser, designer and inspector for construction, installation and maintenance of HVAC with Absorption chiller and its accessories between 5 ~ 1500 U.S.R. tons single effect and direct fired double effects absorption and compression chillers in Iran.
- 1993 ~ 1997** Manager of R. & D. Department SARAN Co., Tehran. (Experienced in Air Conditioning Systems Such as Air Cooled & Water Cooled Liquid Compression Chillers, Air Handling Units, etc.)

Publications:

1. "Experimental Investigation of Aqueous LiBr Solution Absorber Bundle with Horizontal Elliptical Tubes", ASHRAE, HVAC&R Research, 2013, accepted and awaiting for publishing. (ISI paper)
2. "Laminar Falling Film Flow of Aqueous LiBr Solution On a Horizontal Elliptical Tube", Int. Journal of Fluid Mechanics Research, Vol. 40, No. 5, 2013. (ISI Paper)
3. "Velocity Distributions in (r- θ) Directions for Laminar Flow of a Film Around Horizontal Circular Tube", Proceedings of FEDSM06, 2006 ASME Joint U.S. European Fluids Engineering Summer Meeting, July 17-20, 2006, Intercontinental Miami, FL. USA.
4. "Comparison of Velocity Distribution in (r, θ) and (x,y) Coordinates for Falling Film of LiBr-H₂O Solution Around Horizontal Circular Tube", 10th Fluid Dynamic Conference, Nov. 2006, Yazd University, Yazd, Iran.
5. "Simulation of Direct Fired Double Effect LiBr-H₂O Absorption Chillers." International Sorption Heat Pump Conference (ISHPC) June 22-24, 2005 Denver, CO, USA.
6. "Research & Investigation Methods for Design and Construction of Hot Water, Steam, and/or Hot Oil Fired Water Cooled LiBr+H₂O Absorption Chillers with the Various Cooling Capacities", 9th Annual Mechanical Engineering Conference of ISME, May 2001, Gilan University, Rasht, Iran.
7. "A Survey of Flooded Condenser & Evaporator in a Refrigeration System: Experimental & Theoretical Approach", 2nd International Mechanical Engineering Conference of ISME, May 1996, Shiraz university Shiraz, Iran.
8. "Experimental & Theoretical Comparison of Condenser & Evaporator Performance in a Compression Refrigeration System", 15th Canadian Congress of Applied Mechanics, May 1995, University of Victoria, Victoria, British Columbia, Canada.
9. "Research and Development about the Design of Air Cooled Direct Gas Fired LiBr-H₂O Absorption Chillers" 3rd Annual Mechanical Engineering Conference of ISME, May 1995, Amirkabir (Polytechnic) University, Tehran, Iran.
10. "Condenser and Evaporator Analysis in a Compression Chiller Using Empirical Correlation and Experimental Investigation", 2nd Annual Mechanical Engineering Conference of ISME, May 1994, Sharif University of Technology, Tehran, Iran.

Projects:

- 2010 ~ 2014** Research and development of combined cooling, heating and power (CCHP) cycle and solar cooling with absorption chiller in VIUNA HVAC factory.
- 2005 ~ 2013** "Simultaneous Heat and Mass Transfer Numerical Analyses in (r- θ) Directions for Vapor Condensation / Absorption in a Laminar Flow Falling Film of Binary Solution on Cooled Horizontal Ellipse Tube".
- 2005 ~ 2007** Research and Development of :
- Cascade direct fired double effect water cooled LiBr-H₂O absorption chiller and compression chiller for place with higher dry and wet bulb weather conditions, in Azad university of Tehran south branch.
 - Cascade water cooled compression chiller and single effect absorption chiller in cryogenic applications in summer conditions.
 - Two stage hot water / steam fired single effect air cooled LiBr-H₂O absorption chiller for place with higher dry and wet bulb weather conditions, in Azad university of Tehran south branch.
- 2004 ~ 2005** Research and Development of Direct Fired Double Effect Water Cooled LiBr-H₂O Absorption Chillers (with 50~1700 [tons] cooling capacities) in Azad University of Tehran South Branch and Naghashian Factory (NF), (www.naghashian.com).
- 1995 ~ 2003** Design and Completion of Production Line for Single Effect Water Cooled LiBr-H₂O Absorption Chillers in Steam, Hot And Warm Water Fired Types (in two category of low cooling capacities 5~30 [tons] and high cooling capacities 35~1700 [tons]) in NF.
- 1992 ~ 1994** Computer Simulation and Optimization for Condenser and Evaporator in Compression Refrigeration Liquid Chillers (Water Cooled and Air Cooled Models) in SARAN Co., (www.saran-mfg.com)

Skill:

1. FORTRAN and TURBO PASCAL Programming.
2. Designing - Installation/Adjustment and Maintenance of Absorption Chillers in all of kind.
3. Designing - Installation/Adjustment and Maintenance of Compression Refrigeration Chillers.
4. Designing - Installation/Adjustment and Maintenance of Shell and Tube & Air Cooled Heat Exchanger.
5. Designing - Installation/Adjustment and Maintenance of Wet and Dry Cooling Towers.
6. Designing - Installation/Adjustment and Maintenance of Steam and Gas Power Plants.
7. Teaching of Thermodynamic, Heat & Mass Transfer, Fluid Mechanic, City Water Transfer System, and HVAC calculation and plumbing analysis.
8. Teaching of absorption and compression refrigeration chillers cycle and maintenance.

Personal Data:

Date of Birth: 04 June 1966

Place of Birth: Tehran, Iran.

Marital Status: Married.

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Signature:

