# CURRICULUM VITAE

## Mahmood Yaghoubi
## November 2025

**Mechanical Engineering School**
Shiraz University
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## I. Personal Data

Born October 17, 1945, Married, 4 Children

## II. Education

B.S. (Mechanical Engineering) 5-year program
Engineering School, Shiraz University
Shiraz, Iran.
Graduated in June 1970.

M.S. (Mechanical Engineering)
Shiraz University, Iran.
Graduated in June 1972.

Ph.D. (Mechanical Engineering)
Purdue University,
W. Lafayette, Ind. USA
Graduated in Sep. 1978.

## III. Teaching Experiences

1971-1973 Laboratory Instructor, Technical School of Electronic, Shiraz University, Iran
1973-1975 Instructor, Department of Mechanical Engineering, Shiraz University, Iran
1978-1985 Assistant Professor, Department of Mechanical Engineering, Shiraz University, Iran
1985-1986 Associate Professor, Department of Mechanical Engineering, Shiraz University, Iran
1986-1987 Visiting Professor, Institute de Fisica, Tecnica, Universita de Palermo, Italy, Grant Awarded by Int. Center for Theoretical Physics.
1987-1991 Associate Professor, Engineering School, Shiraz University, Iran.
1991-1993 Professor, Engineering School, Shiraz University,

Iran.
1993-1994 Visiting Professor, Colorado State University,
Colorado, USA
1994-2017 Professor, Engineering School, Shiraz University
Shiraz, Iran
2017- Shiraz University-Retired

## IV. Academic Responsibilities

1. Chairman of Mechanical Engineering Department, Shiraz University, Iran (13 months) 1979-1981.

2. Vice Chancellor in Development and Building Construction Affairs, Shiraz University, Iran (one year) 1980-1981.

3. Vice Dean in Educational Affairs, School of Engineering, Shiraz University, Iran (10 months) 1985-1986.

4. Chairman of Mechanical Engineering Department, Shiraz University, (two years and seven months) 1982-1985.

5. Director of Shiraz University Computer Center, Shiraz University, Iran (three years) 1987-1990.

6. Director of Solar Energy Center, Shiraz University, Iran (One year) 1981-1982, and from 1987-1992.

7. Vice Chancellor in Graduate Studies, Shiraz University, 1993.

8. Chairman of Engineering Group, Iran Academy of Sciences, 2001-2002.

## V. Thesis

**Masters:**
"Thermal Stresses in Transient Cooling of
Heat Generating Sphere", Shiraz University, Iran
**Doctorate:**
"Theoretical and Experimental Study of Thermal and Hydrodynamic Conditions in a Shallow Water Layer Heated From Below by Submerged Horizontal Cylinders" , Purdue University, USA

## VI. Member of

1. Fellow, Academy of Sciences of The Islamic Republic of IRAN, 1994-present.

2. American Society of Mechanical Engineers, USA, 1985-2015

3. Fellow, Iranian Society of Mechanical Engineers, IRAN, 1993-2022.

4. New York Academy of Sciences, (one year) 1998.

5. WHO's WHO in the World, 2000-2006.

6. World Renewable Energy Council.

7. WHO's Who in Science and Engineering, 2003.

9. Iranian Society of Solar Energy, 2003.

10. Iranian Renewable Energy Society, 2016-present

11. Iranian Society of Engineering Education

## VII. Miscellaneous Positions

1. Associate Editor of the Iranian Journal of Science and Technology, 1991-Present.

2. Member of the Editorial Board of the Journal of Engineering Islamic Republic of Iran, 1991-1992.

3. Chairman of International Congress on Computational Methods In Engineering, May 1993, Shiraz Iran.

4. Member of The Promotion Committee of Shiraz University.for 4 years

5. Member of the Promotion Committee of the School of Engineering, Shiraz University.

6. Member of Scientific Committee of the Eight International Power System Conference, 1993,and 1995.

7. Member of the Advisory Board of International Journal for Engineering Analysis and Design, India.

8.Member of the Editorial Board of, Esteghlal, an Engineering Journal, published by Technical University of Esfahan, Iran, 1997-2005.

9. Editor-in-Chief, Iranian Journal of Science and Technology, 1995-2010.

10. Associate editor, Research Journal of Iranian Society of Mechanical Engineers, 1996-present.

11. Member of the Editorial Board of, Name-ye-Farhangestan Olom, Academy of Sciences, I.R. of Iran's 1998-1999.

12. Member of The Editorial Board of Engineering Journal of Tabriz University, 2000-2010
13. Executive director, Iranian Journal of Engineering Education, 1999-present

14. Member of Advisory Board of International Journal of Scientia Iranica, 2000-present

15. Member International Advisory Committees of:
    World Renewable Energy Congress, UK, 1996
    World Renewable Energy Congress, Italy, 1998
    World Renewable Energy Congress, UK, 2000
    Sharjah Solar Energy Conference, United Arab Emirates. 2001
    International Conference on Renewable Energy for Rural Development, Bangladesh, 2002
    Member of Scientific Committee of the Ninth Asian Congress of Fluid Mechanic, 2002

16. Member of the Scientific Committee of "Iranian Fluid Mechanic Conferences" , 2001-2012.

17. Director of the Research Journal of Iranian Society of Mechanical Engineers, 2002-present.

18. Associate Editor of International Journal of Modeling and Simulation, USA, 2002-2008.

19. Member of Scientific Committee of first Symposium of Centers of Excellence in IRAN, May, 2004.
20. Member of the International Steering Committee, World Renewable Energy Congress, IX, Italy,

2006.

21. Member of the International Advisory Committee, 3rd BSME-ASME International Conference on Thermal Engineering, 2006.

22. Member of the Scientific Board, National Conference on Creation and Innovation Engineering Education, The University of Gillan, Rasht, Iran, 2009.

23. Member of the Scientific Board, Engineering Education in 2025, Tehran University, Tehran IRAN.

24 Scientific Chairman of Engineering Education for 2025 Conference, Tehran University, 2009.

25. Member of Scientific Committee of International Conference on Science and Technology in Islamic World, Tehran University, Iran, 2013.

26. Member of scientific committee of 5th Electrical Power Conference, Ahvaz, Iran, 2013.

27. Chairman of the First International and 4th National Conference on Engineering Education, Shiraz, Iran, 2015.

28. Scientific Chair of the 5th Annual Clean Energy Conference, Kerman, Iran, 2016.

29. Scientific Chair of the 6th Annual Clean Energy Conference, Shiraz, Iran, 2018.

30. Member, Editorial Journal of Energy Equipment and Systems, 2018-present.

31. Member, Editorial Journal of Computational Methods in Engineering, 2016-2018.

32. Member of scientific committee, 3th International Green Universities and 6th International Workshop of University Ranking, Zanjan University, June 2020.

33. Associate editor of Sharif Journal of Mechanics, 2020,

34. Member of scientific committee of 19th National and the 13th International Conference on e-Learning and e-Teaching (ICeLeT 2026) , Shiraz Iran

35. Member of scientific committee of 9th international Engineering Education, Arak, Iran

## VIII. Honors and Academic Awards

1992 Distinguished Professor for the year, Shiraz University, Shiraz, Iran.

1993 Distinguished Professor for the year, Shiraz University, Shiraz, Iran.

1994 Distinguished Professor for the year, Shiraz University, Shiraz, Iran.

1995 Abadi prize, for the best project in optimization of building energy consumption, Ministry of building, Iran.

1996 Distinguished Professor for the year, Shiraz University, Shiraz, Iran.

1997 Research Excellence, Shiraz University.

1998 Distinguished Mechanical Engineering Professor, Iranian Society of Mechanical Engineers.

1999 High Rank Research Founder of Shiraz University, Shiraz University.

2000 Letter of Research Excellence, Khwarizmi Prize Organization.

2000 High Rank Research Founder of Shiraz University, Shiraz University.

2001 Chehraye Mondegar, (Iranian Distinguished National Scholars) Radio-Television, Islamic Republic of Iran.

2002 University Award for High University-Industry Grants.

2003 Letter of Award for Research Cooperation with Industry from Fars Electricity Co. Iran.

2003 Letter of Research Excellence , Engineering School, Shiraz University.

2004 Letter of Award for the best MS Advisor in Mechanical Engineering, Iranian Mechanical Engineering Society.

2005 Research Excellence, Shiraz University.

2006 Research Excellence, Mechanical Engr. Dept., Shiraz University

2007 Iranian Distinguished Professor, (Award from the President of I.R. Iran).

2007 Research Excellence of the year, Mechanical Engineering Dept., Shiraz University

2007 Research Excellence of the year, Engineering School, Shiraz University

2008 Book of the year, Award from the President of I.R. Iran

2008 Best book in Mechanical Engineering, Tehran University Award, Tehran, Iran

2008 Best book in Mechanical Engineering, Sharif University, Tehran, Iran

2009 Khwarizmi International Award

2009 Islamic Cultural and Educational Award

2009 Fars province award for the 30$^{th}$ year of I.R. Iran science and Technology development

2009 Amirkabir University Award for the best published book in Engineering

2009 Award for best project of 30 years in Fars Province, Local Fars Governor

2009 Research Excellence of the year, Mechanical Engineering School,, Shiraz University

2010 Research Excellence of the year, Mechanical Engineering School,, Shiraz University

2011 Shiraz University Educational Award

2012 A. Tabatabi National Award, Iranian National Elite Foundation

2013 Distinguished National Professor, Afzalipoor Award, Kerman University

2015 Shiraz University Distinguished Researcher

2018 National award, Iranian Society of Renewable Energy for promotion of Renewable Energy in Iran

2019 World upper **One Percent Distinguished Scientist**, Shiraz University Award

2020 Outstanding Researcher, First Laureate, 33$^{rd}$ Khwarizmi International Award, President of I.R. Iran

2021 Upper 2% of **World Distinguished Scientists** of 2021 , Elsevier Citation Ranking

2021 Among Top 20 Shiraz University Scientists during total working period.

2021 Lasting Figure ( Chehreh Mondegar) on National Renewable Energy area, Iran Renewable Energy Association,

2022 World upper two percent most cited researcher, 2021, 2022, and 2023

2023 World upper two percent most cited researcher, 2024

2024 World upper two percent most cited researcher, 2025

## IX. Courses Taught

**Under Graduate level**

1. Thermodynamics
2. Fluid Mechanics
3. Heat Transfer
4. Heat and Mass transfer
5. Heat Transfer Laboratory
6. Ventilation and Air-conditioning
7. Heat Exchanger Design
8. Numerical methods

**Graduate level**

1. Advance Conduction Heat Transfer
2. Advance Convection Heat Transfer
3. Computational Heat Transfer
4. Solar Energy Engineering
5. Research Methods in Engineering

## X. Books

1. Yaghoubi, M. A. "Fundamentals of Heat and Mass Transfer by Convection," Shiraz University Press, 1990.

2. Yaghoubi, M.A. Editor, “Proceedings on the International Congress on Computational Methods In Engineering," 5 Volumes, Shiraz IRAN, May 1993.

3. Bahadori, M.N. and Yaghoubi M., Ventilation and Natural Cooling in Traditional Buildings, Markaz Nasher Daneshgahi, Tehran, Iran, 2007.

4. Shaeri, J. and Yaghoubi M., Passive Techniques for Cooling in Traditional Context and Houses of Bushehr, Amirkabir University Press, 2022.

5. Yaghoubi ,M., Nature of Gonbad bazar’s in cities of the central plateau of Iran, University Press, Markaz Nasher Daneshgahi, Tehran, 2024.

## XI. Book Chapters

1. Baghernejad A. , Yaghoubi M., Exergyoeconomic analysis and optimization of solar thermal power plant, ***Modeling and Optimization of Renewable Energy System***, editor, A. Lazinica, INTECH, 2011.

2. Yaghoubi, M., Potential of solar energy application in the Persian Gulf Region, **Persian Golf Atlas Energy**, **MERC-BLP, UN-Habitat**, 2016.

## XII. Technical Papers in Peer-Reviewed Journals

1. Satter, M.A. and Yaghoubi. M.A. "Free and Forced Vibrations of a Simply Supported Pipe Carrying Flowing Fluid, **The Journal of the Industrial Mathematics Society**, Vol.25, pp. 53-66,1975.

2. Yaghoubi, M.A. and Manvi, R. "Thermal Stresses in Transient Cooling of a Heat Generating Sphere**,** **Nuclear Engineering and Design**, No, 53, pp. 381-386. 1975.

3. Incropera, F.P. and Yaghoubi, M.A. " Free Convection Heat Transfer from Heated Cylinder Immersed in a Shallow Water Layer", **Journal of Heat Transfer ASME Trans**. Vol. 101,pp.743-745, 1979.

4. Incropera F.P. and Yaghoubi M.A. " Buoyancy Driven Flows Originating from Heated Cylinders Submerged in a Finite Water Layer**, Int. J. Heat and Mass Transfer**, Vol. 3, pp.315-330, 1980.

5. Yaghoubi, M.A. and F.P. Incropera "Analysis of Natural Convection Due to Localized Heating in a Shallow Water Layer", **Numerical Heat Transfer**, Vol. 3, pp. 315-330, 1980.

6. Yaghoubi , M.A., "Flow Visualization Above Heated Horizontal Cylinders in a Shallow Water Layer", **Journal of the Flow Visualization Society of Japan**, Vol. 2, No. 6, pp. 559-564, 1982.

7. Yaghoubi, M., Prediction of Energy Demand 1360-1380 (2001) in Fars Province, **J. of Engineering School, Mashhad Univ**., Vol. 1, No. 1, 59-75 (in Persian) 1984.

8. Yaghoubi ,M.A., Yearly Performances of Solar Stills, **Energy**, Vol. 2,No. 2 (in Persian), 1984.

9. Yaghoubi, M.A. and A.A. Golneshan, Passive Cooling of an Underground Room (Sardab), **Iranian J. of Science and Technology**, Vol. 10, No. 1, pp. 89-98, 1985.

10. Yaghoubi, M.A. and A. Sabzevari, Simulation of Passive Solar Building, **Modeling, Simulation & Control, C**, Vol. 8, No. 3, 1987.

11. Yaghoubi, M.A. and A. Sabzevari, Studies on Simulation of Passive Solar Buildings**, J. Solar & Wind Technology**, Vol. 4, No.3, pp.337-346, 1987.

12. Butera, F.M., G. Cannistarao, M.A. Yaghoubi, and A. Lauritano, Benesser Thermico e Ventilazione Naturale negle Edifici, Energie **Alternative Habitate Territorio Energia**, Anno 11, No. 59, pp. 183-189, 1989.

13. Jafarpor, Kh. and M.A. Yaghoubi, Solar Radiation for Shiraz, Iran, **J. Solar & Wind Technology** Vol.6, No.2, pp. 177-179,1989.

14. Golneshan A.A. and M.A. Yaghoubi, Simulation of Ventilation Strategies of a Residential Building in Hot Arid Regions of Iran, **Energy and Buildings**, Vol.14, pp.201-205,1990.

15. Yaghoubi,M.A. and Kh. Jafarpor, Global Solar Radiation for Fars Province, Iran, **Iranian J. of Science and Technology**,Vol.14, No.1, pp.47-62, 1990.

16. Yaghoubi, M.A., Air Flow Pattern Around Domed Roof Buildings, **Renewable Energy**,Vol.1, No.3/4, pp.345-350, 1991.

17. Yaghoubi, M.A., A. Sabzevari, A.A. Golneshan, Wind Towers; an experimental study, **Solar Energy**, Vol. 47, No.2, pp. 97-106,1991

18. Karimi, G., M. Taheri and M.A. Yaghoubi, A Numerical Modeling for Natural Convection Heat Transfer in Porous Media with Generated Internal Heat Sources, **Iranian J. of Engineering**, Vol.4,No.3&4,pp.115-125, 1991.

19. Butera, F., G. Cannistraro, G. Rizzo, and M.A. Yaghoubi, Simplified Thermal Analysis of Naturally Ventilated Dwellings, **Renewable Energy**, Vol.1, No. 5/6, pp. 749-756, 1991.

20. Yaghoubi, M.A., G. Karimi, A.A. Karimi, A Boundary Element Modeling for Two-Dimensional Transient Heat Conduction**, Nuclear Engineering and Design**, Vol. 135 pp.227-285, 1992.

21. Sabzevari, A. and M.A. Yaghoubi, Airflow Behavior In and Around Domed Roof Buildings**, Wind Engineering**, Vol. 16, No. 1, pp. 26-33, 1992.

22. Kazeminejad, H., Yaghoubi, M.A. and Bahri, F., Conjugate Forced Convection-Conduction Analysis of The Performance of a Cooling and Dehumidifying Vertical Rectangular Fin, **Int. Journal Heat and Mass Transfer**, Vol. 36, No. 14, 3625-3631, 1993

23. Yaghoubi, M.A., H. Kazeminejad and Farshidiyanfar, A. , Heat and Mass Transfer with Dehumidification in Laminar Boundary Layer Flow Along a Flat Plate**, Journal of Heat Transfer, ASME Transaction**, Vol. 115, pp.785-788, 1993.

24. Kazeminejad, H., Yaghoubi,M.A. and Sephri, M. , Effect of Dehumidification of Air on the Performance of Eccentric Circular Fins, **Proceedings of the Institute of Mechanical Engineers** Vol. 207, pp. 141-146, 1993.

25. Yaghoubi, M.A. and A. Sabzevari, Solar Radiation in Shiraz: A Comparative Study of Two Periods, International Journal of **Renewable Energy**, Vol. 3,No.6/7, pp.725-729, 1993.

26. Yaghoubi M.A. The Program of Aerospace Engineering Education in Some of the Developed Countries, **Sharif Monthly Publication in Science and Research**, Vol. 9, No.3, pp.42-49, 1372 (1993) in Persian.

27. Kazeminejad H., M. Ghamari, and M.A. Yaghoubi, Leading Edge Separation From a Blunt Plate at Low Reynolds Number; a Numerical Study**, Iranian J. of Science and Technology**, Vol. 17, No. 2, pp. 105-116, 1993.

28. Shafie S., M. Taheri, M.A. Yaghoubi, A Case Study of Energy Saving for Cooling and Heating of Buildings**, Iranian Journal of Science and Technology**, Vol. 19, No.4, 333-346, 1995.

29. Kazeminejad, H. M. Ghamari, and M.A. Yaghoubi, A Numerical Study of Convective Heat Transfer from a Blunt Plate at Low Reynolds Number**, International Journal of Heat and Mass Transfe**r, Vol. 39, No. 1, 125-133, 1966.

30. Yaghoubi, M.A., and Jahanara, M., Two Dimensional Numerical Simulation of Wind Flow and Ventilation in A Single Building Turbulence Model, **Iranian Journal of Science and Technology.** Vol. 20, pp.73-93, 1996.

31. Yaghoubi, M.A., Divisions and Branches in Mechanical Engineering, **J. Mechanical Engineers, Iranian Society of Mechanical Engineers**, 1998 (in Persian).

32. Yaghoubi, M., A. Kirkpatrick, and K. Knappmiler, Numerical Prediction of Contaminant Transport and Indoor Air Quality in a Ventilated Office Space, **J. Particulate Science Technology**, Vol.13, No. 2, PP.117-131, 1995.

33. Yaghoubi, M., and A. Sabzevarri, Calculation of Hourly Output of a Solar Still for Various Cities of Iran, **Renewable Energy**, An International Journal, Vol. 7, No. 4, 427-435, 1996.

34. Yaghoubi, M., Sabzevari, A., Further Data on Solar Radiation for Shiraz, Iran**, Renewable Energy**, an Int. J., Vol. 7, No. 4, 343-344, 1996.

35. Yaghoubi, M., K. Knappmiler, and A. Kerkpatrick**, ASHRAE Transaction**, Vol.115, 1031-1040, 1995.

36. Yaghoubi, M. and P. Davvami, A Study on Engineering Education, **Name-ye Farhangestan-e Ulum,** No.3, Vol.3, pp.85-102, 1996.

37. Eslami, M.R., Esmailzadeh, E., Yaghoubi, M., Sohrabpour, S., Molki, M., Sayyadi, A., The Role of Engineering Societies in Countries Progress**, Nameh-Farhangestan**, Vol. 2, No. 2, 1996.

38. Rahnema, M. and Yaghoubi, M., A Numerical Study of Turbulent Flow Around a Series of Parallel blunt Plates, **Scientia Iranica**, Vol. 3, No. 3, 9-20, 1996.

39. Rahnema, M. Yaghoubi, M., and Sabzevari A., Turbulent Wind Flow Patterns and Pressure Fields Across a Tall Rectangular Building**, Journal of Wind Engineering,** Vol. 20, No. 4, 241-257, 1966.

40. Rahnema, M., M. Yaghoubi, and H. Kazeminejad, A Numerical Study of Convective Heat Transfer from an Array of Blunt Plates, **Int. J. of Heat and Fluid Flow**, Vol. 18, No. 4, 430-436, 1997.

41. Yaghoubi, M. and Dorrodgar, F., Design of a Parabolic Trough Collector for a 250 kW Solar Thermal Power Plant, **J. of Energy of Iran,** No. 1, 54-62, (in Persian).

42. Mehryar, R. and Yaghoubi, M., Design Selection of 250 Solar Thermal Power Plant Cycle**, J. of Energy of Iran**, No. 2, 15-26, 1997, (in Persian)

43. Yaghoubi, M., Zamankhan, P., and A. Sabzevari, Numerical Analysis of Two-Dimensional Wind Flow in and Around Rectangular Buildings Part I: Modeling and Simulation, **Wind Engineering**, Vol. 22, No.2, 1998.

44. Yaghoubi, M., Zamankhan, P., and A., Sabzevari, Numerical Analysis of Two-Dimensional Wind Flow in and Around Rectangular Buildings, Part II:Flow Field and Ventilation, **Wind Engineering,** Vol. 22, No.2, 1998.

45. Yaghoubi, M., and Atashkadi, P., Analysis of Dynamic Forces for Unsteady Laminar Flow Around a Rectangle**, ISME Journal** No.2, pp.57-67, (in Persian) 1999.

46. Yaghoubi, M., and M., Rahnama, Numerical Study of Turbulent Flow and Heat Transfer from an Array of Thick Plates**, International Journal of Thermal Sciences**, Vol. 21, No. 2000.

47. Yaghoubi, M., Non-conventional Training in Engineering Education, **J. Iranian Engineering Education,** Academy of Sciences, I.R. Vol. 1. No.1, Iran ,1999.

48. Yaghoubi, M., et al., A Study of Typical Academy of Sciences Around the Word, **Namey-Farangestan Oloom** (in Persian), 2002.

49. Yaghoubi, M. Mehryar, R. and A. Sabzevari, Design and Performance Simulation of a 250 KW Solar Thermal Power Plant for Shiraz, Iran, **Iranian J. of Energy** (in Persian), Vol. 3, No.6, 1999.

50. Yaghoubi ,M., Definition of Heat in Science and Engineering, **Iranian J. Engineering Education**, Vol.1, No..3, 2000.

51. Nori, P.M., and Yaghoubi, Unsteady State Analysis of 250 KW, Solar Thermal Power Plant in Shiraz, (in Persian**), Iranian J. Energy**, Vol.4, No.8, 2000.

52. Yaghoubi, M. and Rahnama, M., Turbulent Heat Transfer around a Finite Thick Plate with Incident Angle, , Accepted for publication in **Int. J. Communication in Heat Mass Transfer,** Vol.28, No.2, pp267-276, 2001.

53.Yaghoubi, M., Quality Assurance in Engineering Education, **Iranian Journal of Engineering Education,** Vol. 2, No.1, pp.1-22, 2000 (in Persian).

54. Rezvani, A., Karami, Gh and Yaghoubi, M., Thermal Analysis of Tire, Vol. 20., No. 1, **J. of Esteghla**l, (in Persian ) 2001.

55. Yaghoubi, M. A History of Heat Transfer, **Iranian J. of Engineering Education**, Vol. 3, No.1 (in Persian ) 2001.

56. With Graduate committee of I. R. Academy of Sciences, articles:
    1. The significance of Engineering PhD programs
    2. An Investigation to the Engineering PhD Qualifying Exam
    3. Residency Requirement
    4. Ph. D Student Admission Procedure
    5. Journal Publication a Pre0requiste for Ph. D Award
    6. A study on the PhD Research and Education
    7. Graduate Research Relation with University..
    8. Timetable of Engineering PhD Program
    9. Teaching Quality and Course Credit
    10. Peculiarity of Ph. D advisor
    11. Re-evaluation pf Ph. D Program
    12. Various Engineering PhD Curriculum and Development

    In **Iranian Journal of Engineering Education**, Vol. 3, No.2, (in Persian ) 2001.

68. Yaghoubi M., Karami, Gh., Taheri M., and Rahemi, Sh., Comparison of PH.D Specification Program in Other Countries, **Iranian J. of Engineering Education**, Vol. 4, No.3, (in Persian ) 2002.

69. Azizian, K., M. Yaghoubi, and A. Kenray, Design Experiences of the First Solar Parabolic Thermal Power Plant for Various Regions in Iran, **Iranian Journal of Energy**, Vol. 6, No. 12, (in Persian 2002).

70. Amniah, H. and M.Yaghoubi, Three-dimensional Laminar Fluid flow and heat Transfer from Array of Finite length Plates, **Journal of Mechanical Engineering, ISME**, Vol.2, No.5, (in Persian ) 2002.

71. Tabei, M. and Yaghoubi, M., Engineering and Philosophy, **Iranian Journal of Engineering Education,** Vol.4, No.1, 2002 (in Persian).

72. Serposhan, S. and Yaghoubi, M., Solar Energy on Three-dimensional Surfaces, **Iranian Journal of Energy** Vol. 7, No. 13 (in Persian) 2002.

73. Yaghoubi, A. Kenary, and K. Aziziyan, Solar Thermal Power Plant, **Mechanical Engineering Journal** ISME, Winter 2002.

74. Yaghoubi M., Azizian, K.and A. Kenray, Simulation of Shiraz Solar Power Plant for optimal Assessment**, Renewable Energy Journal,** Vol.28, pp.1985-1998 (2003).

75. Yaghoubi, M. and M. N. Bahadori, About Engineering Prosperous, part I-Wisdom, **Iranian Journal of Engineering Education** (in Persian), Vol.5, No.17,, 2003.

76. Bahadori, M. N, and Yaghoubi M. , About Engineering Prosperous, Part II-Principles, **Iranian Journal of Engineering Education** , Vol. 5, Number 17 ( in Persian), 2003.

77. Yaghoubi, M., Aziziyan,K. and Zendehbodi, Solar Radiation Potential in Yasooj, **Iranian Journal of Energy**, Vol.8, No. 16 (in Persian) 2003.

78. Yaghoubi, M and Bahadori, M.N., About Engineering Prosperous, Part III-Professional Ethics, **Iranian Journal of Engineering Education**, Vol. 5, No.18, 2003 (in Persian).

79. Yaghoubi, M., and Bahadori-nejad, Aziziyan, K., A Coarse of Engineering Ethics for Engineering Students, **Iranian Journal of Engineering Education**, Vol. 5, No.20, 2004 (in

Persian).

80. Yaghoubi, M., and Bahadori-nejad, Aziziyan, K., Engineers Social Attitude in Industry **Iranian Journal of Engineering Education**, Vo. 6, No.22, 2004 (in Persian).

81. Yaghoubi, M. and K. Aziziyan, Annual Performances of Shiraz Solar Thermal Power Plant with Steam Engine, **Iranian Journal of Energy**, Vol. 8, No.18, 2004 (in Persian).

82. Yaghoubi, M. and S. Mahmoodi, Experimental Study of Turbulent Separated Flow around Blunt Plates, **Int. J. of Experimental Heat Transfer , Thermodynamics And Fluid Mechanics**, Vol.29, No.1, pp.105-112, 2004**.**

83. Velayati, E. and Yaghoubi, M., A Numerical Study of Turbulent flow around Parallel Bluff Plates, **International J. Heat and Fluid Flow**, Vol. 26, No. 1, pp.80-91, 2005.

84. Yaghoubi, M. and Velayati, Undeveloped Convection Heat Transfer From an Array of Cubes in Cross-Stream Direction, **International Journal of Thermal Sciences**, Vol 44/8 pp 756-765, 2005.

85. Yaghoubi, M. and Velayati, E., Conjugate Heat Transfer from Surface Mounted Finite Blunt Plates to be appears in **The Proceeding of the Mechanical Engineering, Part C**, 2005.

86. Davami, P. Yaghoubi. M., Ghafari, M. M. and Pakpor, M., Foresight for Technology and Science Development, and Available bases for Iran Progresses, **Khabar-Nameh Shiraz University**, No. 99 , 2005 ( in Peraian).

87. Zahmatkesh, A, and Yaghoubi, Studies of Thermal Performance of Electrically Heaters by using Porous materials, **Int. Communication in Heat and Mass Transfer**, 33,259-267, 2006.

88. Yaghoubi, M. and Azizian, K., Development of Ph.D Engineering Students and Significances of Research Methods, **Iranian Journal of Engineering Education**, Vol.8, No.29 (in Persian) 2006.

89. Naeni, N. and M. Yaghoubi**,** Analysis of Wind Flow Around a Parabolic Collector, (1) Fluid Flow, **Renewable Energy**, **An Int. Journal**, Vol. 32, No.11, 1898-1916, 2007.

90. Naeni, N. and M. Yaghoubi**,** Analysis of Wind Flow Around a Parabolic Collector, (2) Heat Transfer, **Renewable Energy**, **An Int. Journa**l, Vol. 32, issue 8, 1259-1272, 2007.

91.Yaghoubi, M. et al, A comparative study of science and technology development in Iran and some other countries, **Iranian Journal of Engineering Educatio**n, Vol.31, 2006 (in Peraian).

92. Yaghoubi M. and M. Ghafari, Conceptual Structure of Science and Technology Policy with Emphasis on Engineering, **Iranian Journal of Engineering Education,** Vol. 8, No. 32, pp.21- 49, 2007 (in Perasian).

93.Hadavand M., Yaghoubi, M., Emdad, H., Transient study of combined convection and radiation of vaulted roofs, Submitted to **Energy and Environment**, 2007.

94. Diyalameh, J, Yaghoubi M., Aboali, O., Natural convection from an array of horizontal Rectangular thick fins with short length, **Applied Thermal Engineering,** Volume 28, Issues 17-18, Pages 2371-2379, 2008.

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## XIV. Patents

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## XVII. Supervisor of the M.Sc. Thesis

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2. Availability of Solar Energy in Shiraz and Development of Empirical Methods to Predict Solar Radiation intensity in Fars Province of Iran, by K. Jafarpur, 1986.

3. Computer Simulating of Combustion and Heat Transfer, by G.R. Shafaf-Zadeh, 1987.

4. Computer Simulation of Natural Convection Heat Transfer in Porous Media with Internal Heat Generation Source, by G. Karimi, 1989.

5. Analysis of Aerodynamic Heating in Axisymmetric Bodies by Finite Element Method, by G.R. Zandehbudi, 1990.

6. Application of Boundary Element Method for Transient Heat Conduction Problems, by A.A. Karimi, 1990.

7. Heat and Mass Transfer with Condensation in Laminar Boundary layer Flow Along a Cooled Flat Plate, by A. Farshidiyanfar, 1990.

8. Fluid Flow and Solidification Simulation in Casting, by H. Assadi, 1991.

9. Convection Heat Transfer for Laminar Separated Flow Over Thick Plates, by M. Ghamari, 1993.

10. Forced Convection Heat transfer from a Cascade of Parallel Plates of Finite Length in Laminar Flow, by A. Khorami, (with Dr. Kazeminejad) 1994

11. Two Dimensional Numerical Solution of Wind Flow Around Simple Rectangular Buildings With or Without Openings, by M. Jahahanara, (with Dr. Moayeri) 1995.

12. Numerical Simulation of Wind Flow Around a Series of buildings with or Without Opening by P. Zamankan (with Dr. Kazeminejad), 1996.

13. Basic Design of a Solar Thermal Power Plant to Generate Electricity, by R. Mehryar, 1996.

14. Finite Element Analysis of Heat Transfer in Furnace Wall of a Steel Plant, M. Ghasemzadeh (with Dr. Karimi), 1997.

15. Thermal Analysis of Tire by Finite Element, A. Rezvani (With Dr. Karami), 1998.

16. Analysis of Two-Dimensional Laminar Unsteady Flow Around a Finite Thick Plate, P. Atashkadi, 1998.

17. Simulations and Design of a Multi-Stage Flash Water Distillation System, N. Ghanbari (with Dr. Mowla).

18. Thermal Structure of Doorodzan Lake, K. Katibeh (with Dr. Jafarpor) 1999.

19. Transient Performances of 250 KW Solar Thermal Power Plants, P. Noori, 1998.

20. Application of Multi-grid Technique for Turbulent Flow, A. Montazeri-Hedesh, 1999.

21. Numerical Study of Fluid Flow and Heat Transfer from Finite Thick Plate with Incident Angle, D. Gohari, 2000.

22. Analysis of Wind Flow around Domed Roof Buildings, M. Mortazavi, 2000.

23. Experimental and Numerical Simulation of Solar Water pump in Southern Part of Iran, Aghamohamadi, with Dr. Zaringchang, 2000.

24. Thermal Analysis and Optimization of a Parabolic Solar Collector and Collector Field of a Power Plant, A. Kenary

25. Three-dimensional Analysis of Laminar flow and heat transfer around parallel , Finite length Plates, H. Amineh, 2001.

26. Analysis of 250 Kw Solar Power Plant for Optimized performances, K. Aziziyan, 2002.

27. Experimental Measurement of Turbulent Flow over a Blunt Flat Plate by Hot wire, M. Seyed Mahmoodi, 2002.

28. Three-Dimensional Analysis of Turbulent Conjugate Heat Transfer from Array of parallel Finite Blunt Plates, E. Velyati, 2003.

29. Numerical Studies of Turbulent Flow, Heat & Mass Transfer with condensation in a Corrugated Duct, R. Hesami, 2003.

30. Exergy Analysis and optimization of the 250 kW Solar Thermal Power Plant, J. Ghadiri, 2004.

31. Mathematical Modeling of Frost Formation over a Cooled Surface with Laminar Flow, E. Bozorgzad, 2004.

32. Numerical Simulation of Fluid and Hat Transfer Around a Surface Mounted Cube with Multigrid Method, A. Heydari, (With Dr. Goshtasbi), 2004.

33. CFD Simulation of a Spray dryer with Cooled Jacket, M. Mohamadi, (with Dr. Goshtasbi), 2004.

34. Mathematical Simulation of Frost Formation Through a 2-D Duct with Turbulent Flow, M. Salmanpour, 2005.

35. Analysis of 2-D and 3-D Turbulent Wind Flow around a Parabolic Collector, N. Naeeni, 2005.

36. Numerical Analysis of Wind Flow around 2-D Vaulted and Flat Roof Buildings, M Hadavand, (with Dr Emdad), 2006.

37. 3-D Natuaral Convection Around an Array of Thick Rectangular Fins, L. Dayalameh, (with Dr Aboali) 2006.

38. Flow Measurement Around Curved Roofs with Hot Wire Anemometry, F. Raissizadeh, (With Dr Goshtasbi Rod), 2006.

39. Three Dimensional Numerical Study of Convection Heat Transfer from Perforated Fins, M. R. Shaeri, ( with Dr Jafarpor) 2007.

30. Heat Transfer Analysis from Series of Vaulted Roof Buildings Exposed to Wind and Solar Radiation, A. Mehdizadeh, 2008.

31. Exergy-economic Analysis of Solar Thermal Power Plant, A. Mokhtari, 2008.

32. Experimental and Numerical Study of Free Convection from an Array of Three Horizontal Cylinders near an Adiabatic Ceiling, A. Eshtiyaghi, 2008.

33. Analysis of Two Dimensional Natural Convection Heat Transfer from Vaulted Roofs in Comparison with Flat Roofs, M. Mohamadiyan, 2009.

34. Natural Convection and Dehumidification of Air on a Cooled Horizontal tube. H. Homayoni, 2009.

35. Exergyeconomic Analysis of an Integrated Solar Combined Cycle System, A. Baghernejad, 2009.

36. Experimental Study of Natural Condensation Heat Transfer Over an Inclined Cylinder Tube, B. Nabovati, 2009.

37. Experimental and numerical study of free convection to cold horizontal isothermal cylinder above an adiabatic plate, M. Sedaghat (Shahrod University with Dr Maghrebi), 2010.

38. Experimental; study of natural frost formation over a horizontal finned tube, M. Mahdavi, 2010.

39. Analysis of laminar natural convection of nanofluids considering heat effects of nanoparticales H.A. Pakravan, 2010.

40. Three dimensional numerical study of combined free and forced convection in an inclined channel containing heat sources, M. Golbahari. 2012.

41. Experimental and numerical study of turbulent wind flow over arc roof building with open apertures, A. Rahmatmand ( joint with Dr Goshtasbi), 2012.

42. Numerical analysis of turbulent air flow over perforated fins by LES, Dastbelaraki, 2012

43. 3D thermo-elastic analysis of an absorber tube of a parabolic trough collector and its effect on optical efficiency, Akbari-Mosavi 2013.

44. Experimental study and transient thermal modeling of Shiraz hybrid solar thermal power plant for developing the capacity to 500 kW, I. Niknia, 2012.

45. Experimental study of natural frost formation over a plate fin heat exchanger, M. Amini (with Dr Pishevar), Esfahan University, 2014.

46. Transient thermal stress analysis of a receiver tube foe a parabolic collector and evaluation of receiver tube thermal performance, H. Abedini ( with Dr Goshtasbi), 2014.

47. Annual simulation of an integrated solar combined cycle power plant with gas turbine inlet air cooling system at central area of Iran, M. Yazdani ( with Dr Jafarpor) 2014.

48. Analysis of droplet dynamics by applying a new single phase CSF method in SPH mesh-free numerical scheme, M. Ordobadi, 2015.

49. Numeriucal analysis of water drops motion over an inclined surface by the SPH method. (with Dr Emdad) F. Yeganehdoost, 2015.

50. Experimental and numerical investigation of natural ventilation and cooling in a cistern, M. A. Najafi, 2013.

51. Optimization of multi stage evaporative cooling system by cross flow plate heat exchanger and comparison with compression refrigeration system, M. Porbagher (with Dr Goshtasbi rad) 2015.

52. Performance evaluation of PVT collectors for several different climates in Iran using exergoeconomic analysis, M. Nemati, 2015.

53. Experimental studies of natural dehumidification over fin tube, K. Hirbodi, 2014.

54. Experimental studies of parabolic collector with nano fluid, F. Ahmadi, (with Dr Ghoshtasbi) 2014.

55. Theoretical and experimental investigation on turbulant convectional heat transfer by multi walled carbon nanotube-heat transfer oil nanofluid, inside a reciever tube of a solar parabolic trough collector, Sh. Ghadiri, (with Dr Zamzamian, MTEM, Tehran) 2015.

56. 3D simulations of smoke exhausts system in two types of subway station platforms. Z. Tavakolian, (with Dr Aboali), 2015.

57. Experimental and numerical studies of natural convection from fin-and-tube of rectangular shape, M. Karami, 2015.

58. Experimental study of natural dehumidification from humid air on square fin arrays, B. Ahmadi, 2018.

59. Experimental Study of Natural Convection from Arrays of Square Fins with Various Fin Spacing. Karami, 2017.

60. Numerical study of magnetic field effect on natural convection of nanofluids, A. Asadian, 2017, (with Dr Abu Ali).

61. Experimental study of dust effect on photovoltaic performance, S.A. Bahraini, 2017.

62. Design, feasibility study and optimization of a hybrid MED-TVC+ solar desalination system In the coastal region of persian Gulf with air pollution considerations, D. Beyralvan, 2017.

63. Experimental and Numerical Study of Natural Convection Heat Transfer From Rectangular Fins Array With Zigzag Arrangement, H. Davoodi, 2017.

64. of solar combined system for electricity generation and analysis simulation and S in the southern part of Iran water desalination, S.A. Tabei, 2017.

65. Techno-economic Analysis of Photovoltaic Application for Household Sector in Different Climate Zones of Iran, M. Mamizadeh, 2018.

66. Design of municipal building of Bushehr with emphasis on natural ventilation to reduce energy consumption, J. Shaeri, 2018 ( with Dr Aliabadi).

67. Experimental investigation of condensation on hybrid hydrophobic-hydrophilic surfaces by anodized coating , M.H. Hormozi, 2018.

68. Experimental and Analytical Study of Energy and Exergy Efficiency of Photovoltaic System at Various Tilt Angles for Shiraz, A. S. Jahromi, 2018.

69. Experimental study of natural convective dehumidification from humid air on horizontal square fin arrays, B. Ahmadi, 2019.

70. Experimental Study of Dust Effect on the Photovoltaic System Performance for Various Tilt Angle in Residential Area of Shiraz/Iran, A. Khodakarm Tafti, 2018.

71. Experimental Analysis of Combined Photovoltaic Thermoelectric System with Energy Storage, P. Hoshyari, 2018.

72. Thermo-economic study of a Rankin cycle with ORC, M.H. Dezfuly, 2018.

73. Technical and Environmental Analysis of Novel Photovoltaic Solar Blind System Utilization on Boostan Rose Fars Greenhouse, T. Alinejad, 2019.

74. Energy, Exergoeconomic and Environmental Analysis of a Novel Trigeneration System for Heating, Cooling and Power Production, A. Abasi, 2019.

75. Analysis of Heat and Mass Transfer during Magnetohydrodynamic (MHD) Double Diffusive Natural Convection by Lattice Boltzmann Method, E. Atashzar (with Dr Goshtasbi-Rud) 2019.

76. Evaluation of performance of single solar still with one-sided slope connected to evacuated tube heat pipe collector, M. Masoodi, (with Drr Jafarpor) 2019.

77. Numerical Simulation of Hot Air Flow in the Human Nasal Cavity and Trachea, H. Mohamadi (with Dr Abuali) 2019.

78. Numerical analysis of combined PV and Thermoelectric with storage in different climate of Iran (with Dr jafarpor) R. Zarei, 2019.

## XVIII. Supervisor of Ph.D. Thesis

1. M. Rahnama, Theoretical and Experimental Analysis of Convective Heat Transfer from Recirculating Flows over Thick Plates, 1997.

2. A.R. Tahavvor, Frost Formation over a Horizontal Cylinder Due to Natural Convection, 2009.

3- M.M. Tavakol: Stochastic dispersion of fibers in turbulent flow using Eulerian-Lagrangian method (with Dr Abuali) 2015.

4- A. Baghernejad, Thermoeconomic and environmental analysis for synthesis of trigeneration systems using organic fluids with fuel cell and renewable energy sources, (with Dr Jafarpor), 2015.

5-A. Nemazian, Experimental study of resin impregnated paper characteristics and inverse analysis for identification of curing kinetics, 2019.

6- M.H. Nozari, Study of dynamic behaviour of energy converters in energy hub model to develope a novel concept for techno-economical and environmental investigation of unitized regenerative fuel cells (urfcs) application as energy storage, (with Dr Jafarpour), 2022

7- P. Arabi, Fomite Disinfection Using Spray Systems: A Computational multi-physics Framework, (with Dr Montazeri, and Dr Jafarpour), 2023.

## XVIV. Research Projects

1. Experimental Study of Solar Energy Potential in Shiraz, Founded by Shiraz University, 1983.

2. Natural Ventilation and Comfort in Passive Cooling Buildings, Founded by Shiraz University, 1985.

3. Analysis of Heat and Mass Transfer from Humid Air over a Cooled Flat Plate, (with Dr. Kazeminejad), 1992.

4. A Study Buildings Heating and Cooling Load with Respect to Orientation, (with Dr. Taheri), Founded by Shiraz University, 1994.

5. A Survey of Engineering Education in the Developed Countries, Founded by Academy of Sciences, 1998.

6. Design, Construction and Testing of the First 250 KW Solar Thermal Power Plant with Parabolic Solar Trough Collectors in Iran, Founded by Vice Minister in Energy Affairs, Minister of Energy, IRAN, **1996-2012**.

7. Heat and Mass Transfer in Laminar and Turbulent Flows, Founded by Shiraz University, 1997.

8. Fluid Flow and Heat Transfer in Recirculating Flows, Founded by Shiraz University Research Council, 2000.

14. Design and Construction Of 75 $m^2$ Parabolic Trough Collector, Founded by Vice Minister in Energy Affairs, Minister of Power, IRAN, 1996-2001.

15. Studies of Solar Energy potential in Yasooj, Iran (with Zandehbodi), 2002.

16. Ethics of Engineers, Iranian Academy of Science, (with Dr. Bahadori) 2003.

17. A Survey of Ph.D Education Programs, Team working in Iranian Academy of Science, 2002.

18. An Appropriate Model for Science and Technology Development Policy with Relation to Engineering, Academy of Sciences of I. R. of Iran, 2004 - 2006.

19. Design, consultancy and construction of 100 meter large size parabolic trough collector, SUNA, Iran, 2013.

20. Analysis and studies of solar radiation potential to develop solar atlas of Iran, Renewable Energy Organization of Iran, 2016.

21. Analysis and design of a system for water production by dehumidification in humid region with super hydrophilic-hydrophobic surface, Pars Energy Economic Organization, Asluyeh, 2016.

22. Design, fabrication, testing and experimental studies as well as numerical investigation of RIP bushing, Niroo-Trans Company, 2017.