CURRICULUM VITAE

Prof. Dr. Hany Ahmed Mohamed Aly

Personal Data

Full name: Hany Ahmed Mohamed
E-mail: hany_ahmed_mohamed@yahoo.com
Nationality: Egyptian
Parment Address: Mechanical Engineering Department,
Faculty of Engineering, Assiut University, Assiut, Egypt.
Birthday: 10/7/1956
Home phone: +201009550653
Mobile phone: +201009550653

Position:

- Chairman of the Department of Manufacturing Engineering and Production Technology, Modern Academy in Maadi, Cairo, from 2022 till now.
- Chairman of the Department of Mechanical Engineering, Higher Technological 10th Ramadan, Cairo, from 2020 to 2022.
- Member of the Program Accreditation Committee (PAC) at ABET center, Faculty of Engineering, Taif University, Saudia Arabia, from 2014 to 2017.
- Chairman of the Assessment & Continuous Improvement Committee (ACIC) at ABET center, Faculty of Engineering, Taif University, Saudia Arabia, from 2014 to 2017.
- Chairman of the Department of Mechanical Engineering, Faculty of Engineering, Assiut University, from 2011 to 2014.
- Vice President of the Directors Board and Director of Engineering Development Center, Faculty of Engineering, Assiut University, from 2011 to 2014.
- Member of the Directors Board of the Engineering Advisory Centre, Faculty of Engineering, Assiut University, from 2011 to 2014.
- Member of the Higher Committee and the steering committee of Mechatronics and Robotics Program, Faculty of Engineering, Assiut University, from 2011 to 2014.
- Member of the Standing Scientific Committee to upgrade the professors and associate professors of power engineering, automotive and aerospace, at Egyptian Ministry of Higher Education from 2013 to 2016 and from 2019 to 2023.
- Member of the Standing Scientific Committee for scientific engineering to upgrade the professors and associate professors, at Egyptian Atomic Energy Authority from 2013 to 2016.
- General supervisor on Faculty of Engineering workshops, Assiut University, from 2011 to 2014.

Scientific Innovation:

- "Comparative Study of Steam Injection Effects on Operation of Gas Turbine Cycles" Special Issue on Innovation in Energy Systems, IJGEI, USA, Vol. 28, No.2/3, 2007, pp.275 – 29.

Degrees and Prizes

2005 Scientific **Distinction Prize** for the best research in mechanical Engineering, Assiut University

2004 Encouragement **State Prize** in the Engineering sciences from the Ministry of the Higher Education and Scientific Research, Egypt.

2004 Training courses at: management development and leadership foundations- (time management and work pressures) - University and community service-teaching using computer-market economics and finance scientific research.

1991 Ph.D. in Mechanical Power Engineering *(Thermophysical Properties of Selected Fluids)* from Prague Technical University, Czech Republic University.

1985 M.Sc. in the field of Mechanical Power Engineering (Rotating heat exchangers) from Assiut University, Egypt.

1979 Bachelor of Mechanical Power Engineering from Assiut University, Egypt. Grade points: ***Distinction***. Project Title "Design water pipeline network for irrigation Assiut university campus green area".

Full-time Employments

2022-now	Head of the Department of Manufacturing Engineering and Production Technology, Modern Academy in Maadi, Cairo.
2020-2022	Head of Mech. Eng. Department, The Higher Technological Institute, Tenth of Ramadan, Tenth of Ramadan City.
2017-2020	Prof. at Mech. Eng. Department, Faculty of Eng., Assiut University, Egypt.
2014-2017	Prof. at Mech. Eng. Department, Faculty of Eng., Taif University, SA.
2011-2014	Head of Mech. Eng. Department, Faculty of Eng., Assiut University, Egypt.
2006-2014	Prof. at Mech. Eng. Department, Faculty of Eng., Assiut University, Egypt.
2005-2006	Prof. at Mech. Eng., Faculty of Eng. Department, 7th April University, Libya.
2001-2005	Associate Prof.at Mech. Eng. Dept., Faculty of Eng., Assiut Univ., Egypt.
1997-2001	Assistant Prof.at Mech. Eng. Depart. Faculty of Eng., Assiut Univ., Egypt.
1995-1997	Assistant Prof. at Mech. Eng. Department, Faculty of Eng., Sanaa University, Yemen State.
1991-1995	Assistant Prof. at Mech. Eng. Department, Faculty of Eng., Assiut University, Egypt.
1988-1991	Post-graduate (Ph.D.) Scholarship at Faculty of Mech. Eng., Prague Technical University, Czech Republic.
1985-1988	Lecturer at Depart. of Mech. Eng., Faculty of Eng., Assiut Univ., Egypt.
1981-1985	Assistant Lecturer and Research Assistant at Department of Mech. Eng., Faculty of Eng., Assiut University, Egypt.
1979-1981	Army service at armadillos' workshops

Administrative and Management Appointments

2013-2016 & 2019-20223	Member of the Egyptian Universities Promotion Committee (EUPC), Committee of Mechanical Power Engineering, motor vehicles, and airplane.
2013-2016	Member of the Standing Scientific Committee for scientific engineering to upgrade the professors and associate professors, at Egyptian Atomic Energy Authority from 2013 to 2016.
2008-Now	Governor in the Egyptian Universities Promotion Committee (EUPC), Committee of Mechanical Power Engineering, motor vehicles, and airplane**.**
2011-Now	Member of the Standing Scientific Committee for scientific engineering to upgrade the professors and associate professors, at Egyptian Atomic Energy Authority from 2013 to 2016.

2004-Now	Membership at American Chemical Society, USA.
From 2000	Member of the engineering faculty board, Assiut University.
1992-2014	Membership in center of the Engineering works consultations at Assiut University.
1991- now	Member of the mechanical engineering department board, Faculty of Engineering, Assiut University.
1988-1990	Egyptian scholars Union member state the Czech Republic.
1979- now	Membership of Egyptian Engineering Union.

Teaching Experiences

- Teaching the following courses at the undergraduate and graduate level including Master and higher diploma at Assiut University:
- Thermodynamics II & I, Advanced Thermodynamics, Fluid Mechanics II & I, Internal combustion engines, Hydraulic and Thermal Power stations, Heat Engines, Hydraulic machines, Heat Exchangers, Refrigeration and Heat Conditioning, Eng. Mechanics, and Different Advanced courses in Mechanical Engineering.

Invited Talks and Public Relations

1. Seventh Annual Conference of the future new and Renewable energy in the Arab world, Assiut, Egypt 12 -14 February 2013.
2. The second international conference on Nuclear and Renewable Energy Resources, Ankara, Turkey, 4-7 July 2010.
3. WSEAS and IASME Conferences, Corfu, Greece, August 2004.
4. CHISA2002 Conference, Prague, Czech Republic, August 2002.
5. 12th International Mechanical Engineering International Conference, Al Mansoura University, Egypt, October 30th-November 1st, 2001.
6. CHISA2000 Conference, Prague, Czech Republic, August 2000.
7. CHISA'98 Conference, Prague, Czech Republic, August 1998.
8. 10th International Conference on Mechanical Power Engineering, Assiut University, Egypt, December 1997.
9. 12th European Conference, Vienna, Austria, September 1990.
10. Attended and participated in CHISA'90 Conference, Prague, Czech Republic, August 1990.
11. Egyptian scholars Union member state the Czech Republic in the period from 1988 to 1990.

Referee Appointments

1. Governor in the Egyptian Universities Promotion Committee (EUPC), Committee of Mechanical Power Engineering, motor vehicles, and airplane.
2. Referee in the Journal of Engineering Sciences, JES, Assiut University, Egypt 3- Referee in the Journal of Engineering Faculty, Minya University, Egypt
3. Honorary Member in the IASME/WSEAS International Conference on HEAT and MASS TRANSFER (HMT '06), Miami, Florida, USA, January 18-20, 2006.
4. Referee in the Industry & Engineering Chemistry Research International Journal Published by the USA Chemical Society.
5. Session Chairman in CHISA'98 Conference, Prague, Czech Republic, August 1998. 7- Member of the organizing committee for 10th International Conference on Mechanical
6. Power Engineering, Assiut University, Egypt, December 1997.

Supervising M.Sc. and Ph. D. thesis:

Many PhD and MSc Theses were Finished and Others under Running in fields:

1. Engineering Thermodynamics
2. Energy and Renewable Energy
3. Internal Combustion Engines
4. Turbomachinery
5. Heat Transfer
6. Mechatronics Subjects
7. Entropy Generation systems
8. Vortex Tubes
9. Solar Distillation systems

Selected Publications

i. Books

1. "Basics of Hydraulic Machines" Assiut Univ. Publisher office for undergraduate students, 2008.
2. "Thermodynamics Property Tables (SI Units)" Assiut Univ. Publisher office for undergraduate students, 2008.
3. "Introduction to Thermal Power Stations" Assiut Univ. Publisher office for undergraduate students, 2008.
4. "Engineering fluid Mechanics "Assiut Univ. Publisher office for undergraduate students, 2004.
5. "Fundamentals of Hydraulic Power Station" Aswan Univ. Publisher office for undergraduate students, Egypt, 2003.
6. "Principles of Mechanical Engineering" Aswan Univ. Publisher office for undergraduate students, Egypt, 2003.
7. "Basics of Engineering Thermodynamics" Assiut Univ. Publisher office for undergraduate students, Egypt, 2000.
8. "Mechanical Workshops and Technical Reports" Health Technical Institute, Publisher office for undergraduate students, Assiut, 1992.

ii. Scientific Researches

A) International Journals

1. R. K. Mohammed, **Hany A. Mohamed,** MR. Abdelaal " Modeling, analysis, and experimental validation of a swash plate compressor for automotive air conditioning" ***Scientific Reports*** *15* No. 42909, *2025*. *https://doi.org/10.1038/s41598-025-27318-w*
2. Mohamed Rafeek, Mohamed Elwardany, A.M. Nassib, M. Salem Ahmed, **Hany A. Mohamed**, MR. Abdelaal " Exergy Analysis of a Crude Oil Distillation Unit for Enhanced Energy Efficiency and Sustainability" SVU-International Journal of Engineering Sciences and Applications (2025) 6(2): 185-194. *DOI 10.21608/svusrc.2025.368928.1276*
3. Mohamed Rafeek, Mohamed Elwardany, A.M. Nassib, M. Salem Ahmed, **Hany A. Mohamed**, MR. Abdelaal " Enhancing energy and exergy efficiency in a petroleum refining unit: a case study" **Journal:** Journal of Thermal Analysis and Calorimetry, Volume 150, pages 17485–17505 (Springer, 2025). *https://doi.org/10.1007/s10973-025-14700-z*
4. Mohamed Rafeek, Mohamed Elwardany, A.M. Nassib, M. Salem Ahmed, **Hany A. Mohamed**, MR. Abdelaal " Sustainable refining: integrating renewable energy and advanced technologies" **Journal:** Journal of Thermal Analysis and Calorimetry (Springer, 2025). *https://doi.org/10.1007/s10973-025-14700-z*

5. Mohamed Rafeek, Mohamed Elwardany, A.M. Nassib, M. Salem Ahmed, Hany A. Mohamed, MR. Abdelaal " Sustainable Refning: Enhancing Energy Efficiency in Crude Distillation Processes" Journal: Chemical Engineering and Processing – Process Intensification, 214, 2025, 110326. https://doi.org/10.1016/j.cep.2025.110326
6. Ashraf Mimi Elsaid, Fathia A. Hashem b, **Hany A. Mohamed**, M. Salem Ahmed " Enhancing Trombe wall performance for winter in Egypt's arid regions: a field study" ADVANCES IN BUILDING ENERGY RESEARCH, Taylor & Francis Online, 2025, https://doi.org/10.1080/17512549.2025.2469052
7. Mohamed Elwardany, A. M. Nassib, **Hany A. Mohamed**, M. R. Abdelaal "Modeling of performance and thermodynamic study of a gas turbine power plant" Journal of Thermal Science and Engineering 2024, 7(4), 8016. https://doi.org/10.24294/tse.v7i4.8016
8. Mohamed Elwardany, Abd El-Moneim M. Nassib, **Hany A. Mohamed** "Exergy analysis of a gas turbine cycle power plant: a case study of power plant in Egypt" Journal of Thermal Analysis and Calorimetry, 149, 2024, 7433–7447. https://doi.org/10.1007/s10973-024-13324-z
9. Mohamed Elwardany, Abd El-Moneim M. Nassib, **Hany A. Mohamed** "Advancing sustainable thermal power generation: insights from recent energy and exergy studies" Process Safety and Environmental Protection 183 (2024) 617–644. https://doi.org/10.1016/j.psep.2024.01.03
10. Mohamed Elwardany, Abd El-Moneim M. Nassib, **Hany A. Mohamed** "Analyzing global research trends in combined cycle power plants: A bibliometric study" Energy Nexus, Volume 13, March 2024, 100265, https://doi.org/10.1016/j.nexus.2023.100265
11. Ashraf Mimi Elsaid, Fathia A. Hashem b, **Hany A. Mohamed**, M. Salem Ahmed "Improving summer cooling in the Egypt hot/dry arid region utilizing a Trombe wall system: A Feld investigation" Solar Energy 267, 2024, 112235 https://doi.org/10.1016/j.solener.2023.112235
12. Mohamed Elwardany, A.M. Nassib, **Hany A. Mohamed**, MR. Abdelaal "Energy and exergy assessment of 750 MW combined cycle power plant: A case study" Energy Nexus 12 (2023) 100251. https://doi.org/10.1016/j.nexus.2023.100251
13. Mohamed Elwardany, Abd El-Moneim M. Nassib, **Hany A. Mohamed** "Comparative Evaluation for Selected Gas Turbine Cycles" International Journal of Thermodynamics, 2023, pp. 1- 11. Published online: Mmm dd, 2023, https://doi.org/10.5541/ijot.1268823
14. M. Salem Ahmed, A.S.A. Mohamed, **Hany A. Mohamed**, M.R. Abdelaal, Hamed Abbady "A review of vacuum solar desalination powered by renewable energy: Recent trends" Journal of Cleaner Production 428, 2023, 139244. https://doi.org/10.1016/j.jclepro.2023.139244Get rights and content
15. A.S.A. Mohamed, Abanob G. Shahdy, **Hany A. Mohamed**, and M. Salem Ahmed" A comprehensive review of the vacuum solar still systems" Renewable and Sustainable Energy Reviews 184, 2023, 113572. https://doi.org/10.1016/j.rser.2023.113572
16. Ashraf Mimi Elsaid, Fathia A. Hashem, **Hany A. Mohamed**, and M. Salem Ahmed "The Energy Savings Achieved by Various Trombe Solar Wall Enhancement Techniques for heating and Cooling Applications: A detailed review" Solar Energy Materials & Solar Cells 254, 2023, 112228. https://doi.org/10.1016/j.solmat.2023.112228
17. Nadin A.Geies, M E H Eltaib, **Hany A. Mohamed**, and Mahmoud Abdelrahim "Grasp Planning for Underactuated Three-Fingers Robot Gripper Using Deep Convolutional Neural Network" International Journal of Mechanical Engineering, Vol. 7 No. 1 January, 2022, 6535-6543
18. Omnia A. A. Salama, Mohamed E. H. Eltaib, **Hany Ahmed Mohamed**, and Omar Salah "RCD: Radial Cell Decomposition Algorithm for Mobile Robot Path Planning" IEEE ACCESS, VOLUME 9, 2021, 149982-149992. **DOI:** 10.1109/ACCESS.2021.3125105

19. Ashraf Mimi Elsaid, **Hany A. Mohamed**, Gamal B. Abdelaziz, and M. Salem Ahmed "A Critical Review of Heating, Ventilation, And Air Conditioning (HVAC) Systems Within the Context of A Global SARS-Cov-2 Epidemic" Process Safety and Environmental Protection 155, 2021, 230-261. https://doi.org/10.1016/j.psep.2021.09.021
20. Mahmoud A. El-Sherief, **Hany. A. Mohamed**, M. Salem Ahmed "Design and Performance of Trombe Wall with Humidification for Air Cooling in Hot Arid Regions' Scholars Journal of Engineering and Technology, August 2020; 8(8): pp. 147-154. DOI: 10.36347/sjet.2020.v08i08.002
21. Attalla, M., **Ahmed, H.**, Ahmed, M.S., El–Wafa, A.A. "Experimental investigation of the effect of nozzle numbers on Ranque–Hilsch vortex tube performance" Experimental Heat Transfer 30(3), 2017, pp. 253-265. https://doi.org/10.1080/08916152.2016.1233150
22. M. Attalla, **Hany Ahmed**, M. Salem Ahmed, A. Abo El- Wafa "Experimental Investigation for Thermal Performance of Series and Parallel Ranque-Hilsch Vortex Tube Systems" Applied Thermal Engineering, Volume 123, August 2017, Pages 327-339. https://doi.org/10.1016/j.applthermaleng.2017.05.08
23. M. Attalla, **Hany Ahmed**, M. Salem Ahmed, A. Abo El- Wafa "An experimental study of nozzle number on Ranque Hilsch counter-flow vortex tube" Experimental Thermal and Fluid Science, Volume 82, April 2017, Pages 381-389. https://doi.org/10.1016/j.expthermflusci.2016.11.034
24. Mahmoud S. Ahmed, **Hany A. Mohamed**, Mohamed A. Omara, Mohamed F. Abdeen "Investigation of Heat Transfer by Natural Convection in an Open Channel" World Academy of Science, Engineering and Technology International Journal of Mechanical and Mechatronics Engineering Vol:9, No:5, 2015. Investigation of Heat Transfer by Natural Convection in an Open Channel | Semantic Scholar 15DE05000235 (waset.org)
25. Abdallah Farrage, Abdel Badie Sharkawy, Ahmed S. Ali, M-Emad S. Soliman, and **Hany A. Mohamed** "Trajectory Tracking of Scara Robot with An Adaptive Neuro-Fuzzy Control Scheme" International Journal of Engineering Research-Online A Peer Reviewed International Journal Vol.3., Issue.5., 2015 (Sept.-Oct.), pp. 512-520. Articles available online http://www.ijoer.in
26. Al-Osaimy A. S. and **Hany A. Mohamed** "Performance and Emissions of Diesel Engine Using Bio-Diesel Blends Fuel" International Journal of Control, Automation and Systems, Vol. 4, No. 2, April 2015, 22 – 27.
27. **Hany A. Mohamed**, M. Attalla, M. Salem, Hussein M. Mghrabie, E. Specht "Experimental Study on Temperature Splitting of a Counter Flow Ranque-Hilsch Vortex Tube" World Academy of Science, Engineering and Technology, Transactions on Mechanical and Mechatronics Engineering, Vol 3, No 5, 2015. Experimental Study on Temperature Splitting of a Counter-Flow Ranque-Hilsch Vortex Tube (waset.org)
28. Hassan A, Ali, **Hany A. Mohamed**, and M. Abdelgawad, "Repulsion-Based Model for Contact Angle Saturation in Electrowetting" Biomicrofluidics,vol. 9, pp. 014115-1-14, 2015. https://doi.org/10.1063/1.4907977
29. Sherif A. Mohamed, Ibrahim. S. Taha, Mahmoud G. Morsy, **Hany A. Mohamed**, Mahmoud. S. Ahmed "Numerical Solution of Solar Energy Absorbed in Porous Medium with a New Approach for Vapor Pressure Calculation and Consideration of Solute Crystallization" American Journal of Aerospace Engineering, 2(1), 2015, 93-105.

    https://www.sciencepublishinggroup.com/article/10.11648/j.ajae.s.2015020101.18
30. Mahmoud S. Ahmed, **Hany A. Mohamed**, M. Attalla, Seif A. Ahmed "Experimental Study of The Energy Separation in Counter Flow Vortex Tube" International Journal of Scientific & Engineering Research, Volume 5, Issue 12, December-2014, 676-682. https://www.semanticscholar.org/paper/Experimental-Study-of-The-Energy-Separation-in-Flow-Ahmed/5f06fab128c7b049a22b00010ef3689a7288bb7b
31. Ali N. Alzaed and **Hany A. Mohamed** "Experimental Study of Solar Chimney for Ventilation in Hot Arid Region" International Journal of Engineering and Innovative Technology (IJEIT)

Volume 4, Issue 4, October 2014, 140-144. Experimental Study of Solar Chimney for Ventilation in Hot Arid Region | Semantic Scholar

32. M-Emad S. Soliman, **Hany A. Mohamed**, O. A. Abdelhafez, and A. M. Nassibe "Production and Characterization of Biodiesel Fuels from Castor Oil Utilizing Methanol" International Research Journal of Engineering Science, Technology and Innovation (IRJESTI), (ISSN-2315-5663) Vol. 3(2), April, 2014, pp. 17-23. https://www.interesjournals.org/articles/production-and-characterization-of-biodiesel-fuels-from-castor-oil-utilizing-methanol.pdf
33. M. Hamdy A, O. M. E. Abdel-Hafez, **Hany A. Mohamed** and A. M. Nassib "Study a Model Close to the Actual Cycle of Internal Combustion Engines" International Journal of Scientific & Engineering Research, Volume 5, Issue 5, May-2014, 1373-1386. https://b.aun.edu.eg/engineering/node/34723
34. **Hany A. Mohamed**, Mahmoud S. Ahmed "Performance characteristics of modified gas turbine cycles with steam injection after combustion exit "International Journal of Energy Research 2012; 36:1346–1357. **https://doi.org/10.1002/er.1916**
35. **Hany A. Mohamed**, Mahmoud S. Ahmed "Performance characteristics of single cylinder diesel engine under different operating conditions" Journal of Enviro. Sci. and Eng., Vol. 5, No. 7, July 2011, pp. 850-856. **https://b.aun.edu.eg/engineering/node/32027**
36. **Hany A. Mohamed** "Comparative Study of Steam Injection Effects on Operation of Gas Turbine Cycles" International Journal of Global Energy Issues (IJGEI), Special Issue on Innovation in Energy Systems, Vol. 28, No.2/3,2007, pp. 275 - 294. **DOI**: 10.1504/IJGEI.2007.015880
37. **Hany A. Mohamed** "Effect of Rotation and Surface Roughness on Heat Transfer Rate to Flow through Vertical Cylinders in Steam Condensation processes" Journal of Heat Transfer, ASME, Vol. 128, No. 3, March 2006, PP. 318-323. https://doi.org/10.1115/1.2098862
38. **Hany A. Mohamed** "Conceptional Design Modeling of Combined Power Generation Cycle for Optimum Performance" Energy & Fuels, American Chemical Society Journal, USA, Vol. 17, No. 6, 2003, PP. 1492- 1500. https://doi.org/10.1021/ef0202743
39. **Hany A. Mohamed** "Entropy Generation in Counter Flow Gas to Gas Heat Exchangers" Journal of Heat Transfer, ASME, Vol. 128, No. 1, January 2006, PP. 87-92. https://doi.org/10.1115/1.2130407
40. V. Vacek, **Hany A. Mohamed** "Measurements of the PVT Properties of Liquid Methanol in the Temperature Range of 200 K And Up To 50 MPa." Fluid Phase Equilibria, Amsterdam, 76, 1992, 187 – 198. DOI:10.1016/0378-3812(92)85087-O
41. V. Vacek, **Hany A. Mohamed** "PVT Properties of Argon in the Temperature Range from 180 To 1000 K and Pressures Up To 100 MPa" Journal of High Temperature–High Pressures, USA, Volume 23, 1991, pp. 689 – 695. (p, V, T) properties of argon in the temperature range 180 - 1000 K and at pressures up to 100 MPa | Semantic Scholar
42. M.G. MORSY, F.M. WASSEF, V.H. MORCOS, **H.A.M. EL BIBLAWY** "Overall Heat Transfer Coefficient for Multi- Tube Rotating Condenser" Journal of Chem Eng. Comm., USA, Vol 57, 1987, 41-49. https://doi.org/10.1080/00986448708960474

B) *International Conferences*

43. Mohamed Elwardany A. M. Nassib, **Hany A. Mohamed** "Case Study: Exergy Analysis of a Gas Turbine Cycle Power Plant in Hot Weather Conditions" 5th Novel Intelligent and Leading Emerging Sciences Conference (NILES), IEEE pp. 291-294, 2023.
44. Mohamed Elwardany A. M. Nassib, **Hany A. Mohamed**, MR. Abdelaal "Performance Assessment of Combined Cycle Power Plant" 5th Novel Intelligent and Leading Emerging Sciences Conference (NILES), IEEE pp. 80-84, 2023.
45. N. A. Geies, M. Abdelrahim, M. ElTaib and **H. A. Mohamed**, "Grasping Stability Analysis of an Underactuated Three Finger Adaptive Gripper on Matlab Sim-Mechanics," 2020 16th

International Computer Engineering Conference (ICENCO), 2020, pp. 141-146, DOI:10.1109/ICENCO49778.2020.9357396.

46. I. S. Taha Sherif A. Mohamed, M. G. Morsy, M. Salem **H. A. Elbeblawy** " Theoretical Study of Enhancement of Solar Still Using Porous Medium and Compound Parabolic Concentrator" Proceedings of ICFD12: Twelfth International Conference of Fluid Dynamics 19-20 December, 2016, Le Méridien Pyramids Hotel, Cairo, EGYPT. https://www.google.com.eg/search?q=ICFD12+egypt+2016+pdf&sa=X&dcr=0&tbm=isch&tbo=u&source=univ&ved=2ahUKEwiFzaTU99XdAhXKZ1AKHQzICUUQsAR6BAgGEAE&biw=1024&bih=60

47. **Hany A. Mohamed**, M. Attalla, M. Salem, Hussein M. Mghrabie, E. Specht "Experimental Study on Temperature Splitting of a Counter Flow Ranque-Hilsch Vortex Tube" XIV International Conference of Thermal Engineering, Berlin Germany May 21-22, 2015, 17(5) Part XIV. https://www.researchgate.net/profile/Hussein-Maghrabie/publication/277028294_Experimental_Study_on_Temperature_Splitting_of_a_Counter-Flow_Ranque-Hilsh_Vortex_Tube/links/5a191c8ba6fdcc50ade7f74d/Experimental-Study-on-Temperature-Splitting-of-a-Counter-Flow-Ranque-Hilsh-Vortex-Tube.pdf

48. **Hany A. Mohamed**, Mahmoud S. Ahmed, M. Attalla, and A. Abo El –Wafa "Air Cooling by Swirling Air Using Counter Flow Vortex Tubes" 1stInternational Workshop on Mechatronics Education, March 8th -10th, Taif, Saudi Arabia, 2015.

49. **Hany A. Mohamed**, Mahmoud S. Ahmed, M. Attalla, and A. Abo El –Wafa "Control of Inlet Pressure for Energy Separation of the Ranque Hilsch Vortex Tub" 1stInternational Workshop on Mechatronics Education, March 8th -10th, Taif, Saudi Arabia, 2015.

50. Mahmoud S. Ahmed, Hany A. Mohamed, A. Abo El-Wafa "Experimental Study of The Energy Separation in Counter Flow Vortex Tube" 3 rd International Conference on Energy Systems and Technologies 16 – 19 Feb. 2015, Cairo, Egypt. https://www.researchgate.net/profile/Abdellah-Ahmed/publication/276297644_Experimental_Study_of_The_Energy_Separation_in_Counter_Flow_Vortex_Tube/links/577bcc2e08aec3b74336688f/Experimental-Study-of-The-Energy-Separation-in-Counter-Flow-Vortex-Tube.pdf

51. Sherif A. Mohamed, Ibrahim. S. Taha, Mahmoud G. Morsy, **Hany A. Mohamed**, Mahmoud. S. Ahmed "Study of The Effect of Porous Medium (Sand) Thickness on Double Slope Solar Still Productivity with Considering Humid Air Region" 3 rd International Conference on Energy Systems and Technologies, ICEST 2015, Cairo, Egypt, 16 – 19 Feb. 2015. https://www.researchgate.net/profile/Sherif-Mohamed-8/publication/283719568_STUDY_OF_THE_EFFECT_OF_POROUS_MEDIUM_SAND_THICKNESS_ON_DOUBLE_SLOPE_SOLAR_STILL_PRODUCTIVITY_WITH_CONSIDERING_HUMID_AIR_REGION/links/5644a7af08ae9f9c13e5652b/STUDY-OF-THE-EFFECT-OF-POROUS-MEDIUM-SAND-THICKNESS-ON-DOUBLE-SLOPE-SOLAR-STILL-PRODUCTIVITY-WITH-CONSIDERING-HUMID-AIR-REGION.pdf

52. Sherif A. Mohamed, Ibrahim. S. Taha, Mahmoud G. Morsy, **Hany A. Mohamed**, Mahmoud. S. Ahmed "Enhancement of Solar Still Using Porous Medium and Concentrating Reflector. Part (1): Model for Porous Medium and Numerical Solution" 7th International conference on Thermal Engineering: Theory and Applications, Marrakesh- Morocco, May 6-8, 2014.

53. Mahmoud S. Ahmed, **Hany A. Mohamed**, Mohamed A. Omara, Mohamed F. Abdeen "Investigation of Heat Transfer by Natural Convection in an Open Channel" ICTE 2015 : International Conference on Thermal Engineering Conference Location : Berlin, Germany Conference Dates : May 21-22, 2015. 15DE05000235 (waset.org)

54. Hassan Abdelmoumen Abdellah Ali, **Hany A. Mohamed**, and Mohamed Abdelgawad "Repulsion-based model for explanation of contact angle saturation" Advances in Micro fluids & Nano fluidics meeting, University of Notre Dame, 24-26 May 2013. https://doi.org/10.1063/1.4907977

55. **Hany A. Mohamed**, Omar M. El Anwar, Abd El Moneim M. Nassib and Students group (Ahmed O. Mohammed, Amr A. El saaed, Hosam M. Farghl, Safaa S. Mohammed, Salma K. Abd El Moneim, Mohammed A. Helmy, Manar A. Mahmoud, and Walaa M. Bauomi) "Analysis and optimization of biodiesel production from desert plants "Seventh Annual Conference of the future new and Renewable energy in the Arab world, Assiut, Egypt, 12 - 14 Feb.13, 2013.

56. **Hany A. Mohamed**, Mahmoud S. Ahmed "Performance characteristics of single cylinder diesel engine under different operating conditions" Second International conference on Nuclear and Renewable Energy Resources, Ankara, Turkey, 4-7 July 2010. Hany A. Mohamed, Mahmoud S. Ahmed "Performance characteristics of single cylinder diesel engine under different operating conditions" Second International conference on Nuclear and Renewable Energy Resources, Ankara, Turkey, 4-7 July 2010. - Search (bing.com)

57. **Hany A. Mohamed**, Mahmoud S. Ahmed "Performance characteristics of modified gas turbine cycles with steam injection" Second International conference on Nuclear and Renewable Energy Resources, Ankara, Turkey, 4-7 July 2010.

58. E. M. Shuia, **Hany A. Mohamed** "Performance Characteristics for Ideal and Actual Partial Oxidation Cycles and Reheat Cycle" Proceeding of the 17th CHISA'2006 International Congress, Prague, Czech Republic,27-31 August 2006.

59. **Hany A. Mohamed** "Effect of Rotation and Surface Roughness on Heat Transfer Rate to Flow Through Vertical Cylinders in Steam Condensation processes" WSEAS and IASME Conferences, Corfu, Greece, August 17-19, 2004, pp. 488-451.

60. **Hany A. Mohamed**, Ahmed S. Hassan, Omar M. E. Abdel-Hafez "Prediction and Optimization of an Axial Flow Turbine" WSEAS and IASME Conferences, Corfu, Greece, August 17-19, 2004, pp. 488-410.

61. Fayez M. Wassef, **Hany A. Mohamed**, Ahmed S. Hassan, M. A. Zaki "Stability and Performance of a Low-Speed Compressor with Modified Casing "WSEAS and IASME Conferences, Corfu, Greece, August 17-19, 2004, pp. 488-407.

62. I. M. Ismail, **Hany A. Mohamed** "Comparative Study of Solar Air Humidification - Dehumidification Unit" Proceedings of 15th CHISA'2002 International Conference, Prague, August, 2002.

63. **Hany A. Mohamed** "Conceptional Design Modeling of Gas Turbine Cycle for Optimum Performance" Proceeding of 15th CHISA'2002 International Conference, Prague, August, 2002.

64. Abdel-Rahim, Y.M, **Hany A. Mohamed** "Optimum performance comparative study of combined gas turbine partial oxidation cycle and reheat cycle" AUTOTESTCON Proceedings, 2001. IEEE Systems Readiness Technology Conference Volume, Issue, 2001 Page(s):389–400Digital Object Identifier 10.1109/AUTEST.2001.949007.

65. Abdel-Rahim, Y.M, **Hany A. Mohamed** "Gas Turbine Cycle Characteristics for Optimum Work Output, First Law and Second Law Efficiency Operation" Proceedings of IECEC'01, 36th Intersociety Energy Conversion Engineering International Conference, Paper ES-50, Savannah, Georgia, USA, July 29–August 2, 2001.

66. N. Y. Abdel-Shafi, A. S. Abo El-Lail and **Hany A. Mohamed** "Investigation of Steam Condensing on Rotating Plastic Surface with Cooling Water Flows Inside Annular Passage" 12th International Conference on Mechanical Engineering, Mansoura, Egypt, Octoberb30th-November 1st, IMPEC, 2001, pp H127-H136.

67. A. S. Abo El-Lail, **Hany A. Mohamed**, N. Y. Abdel-Shafi "Numerical Study of Natural Convection in an Enclosure with Partitions" Proceedings of 14th CHISA'2000 International Conference, Prague, August, 2000.

68. A. S. Abo El-Lail, **Hany A. Mohamed**, N. Y. Abdel-Shafi, A. Ayyad "Surge Control for Low-Speed Centrifugal Blower" Proceedings of 14th CHISA'2000 International Conference, Prague,

August, 2000.

69. **Hany A. Mohamed** "Steam Condensation on a Vertical Rotating Bundle of Tubes" Proceedings of 13th CHISA'98 International Conference, Prague, August, 1998.
70. V. Vacek, **Hany A. Mohamed** "PVT Properties of Argon in the Temperature Range from 180 To 1000 K and Pressures Up To 100 MPa" 12th European International Conference on Thermophysical Properties, Vienna, Austria, September, 1990.
71. V. Vacek, **Hany A. Mohamed** "PVT Properties of Argon in the Temperature Range From–45 to 30oC And Pressures Up To 50 MPa" CHISA'90 International Conference, Prague, August, 1990.
72. **Hany A. Mohamed** "Steam Condensation Through a Vertical Rotating Annular Passage" 10th International Conference on Mechanical Power Engineering, Assiut, December, 1997.

C) National Journals

73. Mohamed S. El-Soghiar, Mohamed F. F. El-Dosoky, Ali K. Abdel-Rahman, **Hany A. Mohamed**, Mahmoud G. Morsy "Performance Study Of A Modified Ranque-Hilsch Vortex Tube" JES, Assiut University, Faculty of Engineering, Vol. 42, No. 6, November 2014, pp. 1414 – 1429. 19eb5bb205e2045926c221153a9422ddec1e.pdf (semanticscholar.org)
74. Abdallah Farrage, Abdel Badie Sharkawy, Ahmed S. Ali, M-Emad S. Soliman, and **Hany Mohamed** "Experimental Investigation of an Adaptive Neuro-Fuzzy Control Scheme For Industrial Robots" JES, Assiut University, Faculty of Engineering, Vol. 42, No. 3, May 2014, pp. 703 – 721.
75. Mahmoud S. Ahmed, **Hany A. Mohamed**, Mohamed A. Omara, and Mohamed F. Abdeen "Natural Convection Heat Transfer inside vertical and inclined Open Ended Equilateral Triangular Channels" Journal of Engineering Sciences, JES, Assiut University, Vol. 41, No. 6, November 2013, pp. 2160 - 2174.
76. Mahmoud S. Ahmed, **Hany A. Mohamed**, Mohamed A. Omara, and Mohamed F. Abdeen "Experimental Study of Natural Convection Heat Transfer through Horizontal Open Ended Equilateral Triangular Channels" Journal of Engineering Sciences, JES, Assiut University, Vol. 40, No. 4, July 2012, 1091-1103.
77. Fayez M. Wassef, **Hany A. Mohamed**, Ahmed S. Hassan, M. A. Zaki "Investigate of Centrifugal Compressor Stabilization Techniques" Journal of Engineering Sciences, JES, Assiut University, Vol. 33, No. 5, November 2005.
78. **Hany A. Mohamed**, Ahmed S. Hassan, Omar M. E. Abdel-Hafez "Validations and Investigations of a Kaplan Turbine Performance characteristics" Journal of Engineering Sciences, JES, Assiut University, Vol. 33, No. 4, July 2005.
79. **Hany A. Mohamed** "Comparative Study of Steam Injection Effects on Operation of Gas Turbine Cycles" Journal of Engineering Sciences, JES, Assiut University, Vol. 33, No. 3, May 2005, pp. 841-859.
80. **Hany A. Mohamed** "Effect of Rotation and Surface Roughness on Heat Transfer Rate to Flow Through Vertical Cylinders in Steam Condensation processes" Journal of Engineering Sciences, JES, Assiut University, Vol. 32, No. 5, November 2004, pp. 2049-2061.
81. Fayez M. Wassef, **Hany A. Mohamed**, Ahmed S. Hassan, M. A. Zaki "Stability and Performance of a Low-Speed Compressor with Modified Casing "Journal of Engineering Sciences, JES, Assiut University, Vol. 32, No. 5, November 2004, pp. 2025-2047.
82. M. M. S. Ahmed, O. M.A. Hafez, **Hany A. Mohamed**, and A. S. Hassan "Study of The Performance of a Swash Plate Compressor Incorporated with an Automotive Air Conditioning System "Journal of Engineering Sciences, JES, Assiut University, Vol. 32, No. 1, January 2004, pp. 181-197.

83. **Hany A. Mohamed**, Ahmed S. Hassan, Omar M. E. Abdel-Hafez "Optimum Design and performance of Axial Flow Turbine" Journal of Engineering Sciences, JES, Assiut University, Vol. 32, No. 1, January 2004, pp. 219-234.
84. **Hany A. Mohamed** "Entropy Generation in Counter Flow Gas to Gas Heat Exchangers" Journal of Engineering Sciences, JES, Assiut University, Vol. 31, No. 4, October 2003, pp. 895-909.
85. **Hany A. Mohamed**, Ahmed S. Hassan, Omar M. E. Abdel-Hafez "Prediction and Optimization of a Radial Flow Hydraulic Turbine Performance" Journal of Engineering Sciences, JES, Assiut University, Vol. 31, No. 2, April 2003, pp. 321-343.
86. **Hany A. Mohamed** "Optimum Performance Characteristics of Ideal and Actual Partial Oxidation Cycles and Reheat cycle–A Comparative Study" Bulletin of the Faculty of Engineering, Minia University, Vol. 20, No.2, June, 2001.
87. **Hany A. Mohamed**, Abdel-Rahim Y.M "Optimum Combined Gas Turbine-Bottoming Air Cycle Characteristics" Bulletin of the Faculty of Engineering, Assiut University, Vol. 29, No. 2, May 2001.
88. A. S. Abo El-Lail, **Hany A. Mohamed**, N. Y. Abdel-Shafi "Mechanical Compensated System for Low-Speed Centrifugal Blower" Bulletin of the Faculty of Engineering, Assiut University, Vol. 29, No. 2, May 2001.
89. **Hany A. Mohamed** "Thermophysical Properties of the Selected Fluids" PhD Thesis, CVUT, Faculty of Mechanical Eng., Prague, April 1991.
90. **Hany A. Mohamed** "Experimental Research of the PVT Behavior of the Pure Fluids" Bulletin of the Faculty of Mechanical Eng., CVUT, Prague, 1989.
91. **Hany A. Mohamed** "Overall Heat Transfer Coefficient for Multi- Tube Rotating Condenser" M.Sc. Thesis, Assiut University, Egypt, 1985.