

Curriculum Vitae (CV)

Prof. Dr. Hesham Mohamed Mostafa



Personal Information:

Academic Rank: Professor

Department: Mechanical Engineering

Specialization: Thermal Engineering (Heat Transfer)

Position: Professor in Mechanical Engineering

Google Scholar: --

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Ph. D. in Mechanical Power Engineering Department.	Faculty of Engineering, Mansoura University.	Oct., 1994
M.Sc.	M. Sc. in Mechanical Power Engineering Department.	Faculty of Engineering, Mansoura University.	Aug., 1989
B.Sc.	B. Sc. in Mechanical Power Engineering Department. with general grade “Excellent with honor degree” percentage 89.68 %.	Faculty of Engineering, Mansoura University.	May, 1983

Academic Experience:

Institution: Higher Technological Institute, (HTI) Tenth of Ramadan City, Egypt.

Rank: **Professor**

Dates: June 2011 - Present.

Institution: Faculty of Engineering King Abdel Aziz University, KSA.

Rank: **Professor**

Dates: Sep. 2010 - Jun. 2011.

Institution: Higher Technological Institute, (HTI) Tenth of Ramadan City, Egypt.

Rank: **Associate Professor**

Dates: April 2002 – Sep. 2011.

Institution: Higher Technological Institute, (HTI) Tenth of Ramadan City, Egypt.

Rank: **Assistant Professor**

Dates: April 1995 - April 2002.

Institution: Higher Technological Institute, (HTI) Tenth of Ramadan City, Egypt.

Rank: **Research Assistant (PhD student)**

Dates: May 1992 – April 1995

Institution: Higher Technological Institute, (HTI) Tenth of Ramadan City, Egypt.

Rank: **Teaching Assistant**

Dates: Oct. 1990 – May 1992.

Institution: Faculty of Engineering, Mansoura university, Egypt.

Rank: **Assoc. Researcher** at Mechanical Power Engineering Department.

Dates: Oct. 1989 – Oct. 1990.

Research interests:

- Heat and Mass Transfer
- Heat pipe
- Air cooled condensers
- Pulsating flow

Publications:

- 1- **Amr M. hassaan and Hesham M. Mostafa**, "Experimentally Study for Convection Heat Transfer From Helical Coils With the Same Outer Surface Area and Different Coil Geometry," Journal of Thermal Science and Engineering Applications, Vol. 13 / 051012-1, October 2021.
- 2- M. A. Sultan, **Hesham M. Mostafa**, E. A. El-Negiry, and A.M. El-Boz "Effect of Inlet and Geometrical Parameters on the Melting of PCM Capsules of Elliptical Cross Section," Engineering Research Journal (ERJ), Minoufia University, Vol. 44, No. 1, pp.11-20, January 2021.
- 3- M. A. Sultan, E. A. El-Negiry, **Hesham M. Mostafa** and A.M. El-Boz "Experimental And Computational Study of Melting of ParaffinWax Inside a Cylindrical Capsules of Elliptical Cross Section," Engineering Research Journal (ERJ), Minoufia University, Vol. 43, No. 2, pp. 99-108, April 2020.
- 4- M. G. Wasel, M. G. Saafan, **Hesham M. Mostafa** and A. Fakhry "Flow and heat transfer of a fluid over stretching surface with internal heat generation," Mansoura Engineering Journal (MEJ), Vol. 42, No. 3, March 2017.
- 5- **Hesham M. Mostafa** and M. Abdel-kreem "Effect of pulsating flow on the evaporation rate from water surface, " International Journal of Advance Research In Science And Engineering, IJARSE, Vol. No.4, Issue 05, pp. 303-315, May 2015.
- 6- Amro M. Abou Elenein, Ahmed A. Sultan, **Hesham M. Mostafa** and Ahmed A. Hegazi "Experimental investigation of natural convection heat transfer through rectangular enclosure filled with TIO₂ – water nano-fluid," Mansoura Engineering Journal (MEJ), Vol. 39, No. 1, March 2014.
- 7- Amro M. Abou Elenein, Ahmed A. Sultan, **Hesham M. Mostafa** and Ahmed A. Hegazi "Theoretical investigation of natural convection heat transfer through rectangular enclosure," Mansoura Engineering Journal (MEJ), Vol. 39, No. 1, March 2014.
- 8- Ahmed A. Sultan, **Hesham M. Mostafa** and Saleh S. Abd Elhady "Experimental investigation of air humidification through convergent and divergent rectangular duct," Mansoura Engineering Journal (MEJ), Vol. 38, No. 1, March 2013.
- 9- Mohamed A. Abd Raboh ,**Hesham M. Mostafa** and Mostafa A. M. Ali and Amr M. Hassaan "Experimental Study for Condensation Heat Transfer Inside Helical Coil," Al-Azhar Engineering eleventh International Conference, Cairo, Egypt, Dec. 21-23, 2010.
- 10- E. A. M. Elshafei and **Hesham M. Mostafa** "Investigation of water evaporation to steady and pulsating air flow, " Seventh International Engineering Conference, Mansoura/ Sharm El-Sheikh, Egypt, 23-28 March 2010.
- 11- **Hesham M. Mostafa** and Tarek F. oda. "Convection heat transfer and pressure drop for dilute polymer solutions flow inside multi-channels flat tube, " Mansoura Engineering Journal (MEJ), Vol. 35, No. 2, pp. 28-44, March 2010.
- 12- **Hesham M. Mostafa** and M.G. Mousa "Convection Heat Transfer and Friction Factor of AL₂O₃ /Water Nanofluid Flows inside Circular Tube with Inserting Helical Tape," Mansoura Engineering Journal (MEJ), Vol. 33, No. 4, pp. M.86–M.102, Dec. 2008.

- 13- **Hesham M. Mostafa** "Boiling Heat Transfer For Aqueous Surfactants Solutions on Flat Surface," Mansoura Engineering Journal (MEJ), Vol. 33, No. 4, pp. M.1–M.14, Dec. 2008.
- 14- M.M. Awad, **Hesham M. Mostafa**, G. I. Sultan, A. El-Booz and A.M.K. El-Ghonemy "Thermal and Hydraulic Analysis For Air Flow Across Flat Tubes Air Cooled Condensers," Mansoura Engineering Journal (MEJ), Vol. 32, No. 4, pp. M.30–M.42, Dec. 2007.
- 15- M.M. Awad, **Hesham M. Mostafa**, G.I. Sultan, A. El-Booz and A.M.K. El-Ghonemy "Forced Convection Heat Transfer For Air Flow Across Flat Tubes Heat Exchanger," Mansoura Engineering Journal (MEJ), Vol. 32, No. 4, pp. M.13–M.29, Dec. 2007.
- 16- **Hesham M. Mostafa** and K.M. Abd Elsalam "Boiling Heat Transfer In Closed Loop heat Pipe," Mansoura Engineering Journal (MEJ), Vol. 32, No. 4, pp. M.1–M.12, Dec. 2007.
- 17- Mahmoud A. El-Kady, **Hesham M. Mostafa** and Alaa-Eldin M. Ibrahim "Experimental Investigation Of The Performance Of Three Geometries Of Heat Pipe," Ain Shams Scientific Bulletin, Vol. 42, No. 3, pp. 1031–1046, Sep. 2007. And Al-Azhar Engineering Ninth International Conference, Cairo, Egypt, M56, April 12-14, 2007.
- 18- Eed A. Abdel-Hadi, Sherif H. Taher, **Hesham M. Mostafa** and Kamal E.H. Mahrous "Evaporation Heat Transfer Of R134a Inside Horizontal Internally Finned Tubes," Engng. Resh. Jour., Helwan University, Faculty of Engng, Mataria, Cairo, Vol. 112, pp. M 18-M 39, Aug. 2007.
- 19- M.M. Awad, **Hesham M. Mostafa**, G.I. Sultan, A. El-Booz and A.M.K. El-Ghonemy " Performance Enhancement of Air-cooled Condensers," Acta Polytechnica Hyngarica Journal of Applied Sciences at Budapest Tech Hungary, Vol. 4, No. 2, pp., 125-142, 2007.
- 20- **Hesham M. Mostafa** and M.G. Mousa "Heat And Mass Transfer From Moist Air Flowing Inside Cold Horizontal Circular Duct, II- Experimental Study," Mansoura Engineering Journal (MEJ), Vol. 31, No. 4, pp. M.36–M.45, Dec. 2006.
- 21- **Hesham M. Mostafa** and M.G. Mousa "Heat And Mass Transfer From Moist Air Flowing Inside Cold Horizontal Circular Duct, I- Theoretical Study," Mansoura Engineering Journal (MEJ), Vol. 31, No. 4, pp. M.25–M.35, Dec. 2006.
- 22- M.G. Wasel, **Hesham M. Mostafa**, Gamal I. Sultan and A. Abd El-Badie "Study Of Parameters Affecting The Thermal Drying Process" Mansoura Engineering Journal (MEJ), Vol. 31, No. 4, pp. M.1–M.16, Dec. 2006.
- 23- **Hesham M. Mostafa** "Experimental Study For Boiling Heat Transfer Inside Thermosyphon" Ain Shams Scientific Bulletin, Vol. 41, No. 2, pp. 749–761, June 2006.
- 24- M.M. Awad, **Hesham M. Mostafa**, G.I. Sultan, A. El-Booz and A.M.K. El-Ghonemy "Enhancing Air Side Heat Transfer Coefficient Of Flat Tube Air Cooled Condensers," Mansoura Engineering Journal (MEJ), Vol. 31, No. 1, pp. M.15–M.24, March 2006.
- 25- **Hesham M. Mostafa** "Heat Transfer and Pressure Drop For Water Flow Inside A Horizontal Tube With Internally Micro-fins" Ain Shams Scientific Bulletin, Vol. 40, No. 4, pp. 1159-1175, December 2005.
- 26- **Hesham M. Mostafa**, A.M. Torki and K.M. Abd Elsalam "Theoretical Study Of Laminar Pulsating Flow In A Pipe" Ain Shams Scientific Bulletin, Vol. 40, No. 4, pp. 1089-1103, December 2005.
- 27- **Hesham M. Mostafa**, A. M. Torki and K. M. Abd Elsalam "Experimental Study For Forced Convection Heat Transfer Of Pulsating Flow Inside Horizontal Tube," 4th Int. Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Paper number AK3, Cairo, Egypt, 19-22 Sep. 2005.

- 28- Lotfy H. Rabie, **Hesham M. Mostafa**, Gamal I. Sultan and M.A. El-Booz "Forced Convection Heat Transfer In Circular Meso-Tubes," Mansoura Engineering Journal (MEJ), Vol. 29, No. 4, pp. M.22–M.37, December 2004. And I. J. Trans. Phenomena, Vol. 9, pp.271-286, 2007.
- 29- **Hesham M. Mostafa**, Gamal I. Sultan and Mohamed G. Mousa "Heat Transfer For Pulsating Flow In A Horizontal Cylinder Partially Filled With A Porous Medium," Mansoura Engineering Journal (MEJ), Vol. 29, No. 1, pp. M.34–M.43, March 2004.
- 30- **Hesham M. Mostafa** "Simultaneous Heat And Mass Transfer For Pulsating Air Flow In A Wind Tunnel Over A Water Panel," Ain Shams Scientific Bulletin, Vol. 38, No. 4, pp. 929-947, December 2003.
- 31- Ghada El-Sawah, **Hesham Mostafa** and Mahmoud Fouad "Experimental And Numerical Study Of Indoor Air Quality In A Classroom Environment," 2nd Annual Regional Conference of ASHRAE (Region AT Large), Cairo, Egypt RAL1-4, pp. 52-65, 6-8 Sep. 2003.
- 32- **Hesham M. Mostafa** and M.G. Mousa "Forced Convection Heat Transfer From A Hot Cylinder To Cross Pulsating Flow," Al-Azhar Engineering 7th Int. Conference, Cairo, Egypt, M04/08, pp. 1-13, 7-10 April 2003.
- 33- M.G. Wasel, **Hesham M. Mostafa** and M.G. Mousa "Natural Convection From A Horizontal Hot Cylinder Embedded In A Porous Medium," Engng. Resh. Jour., Helwan University, Faculty of Engng., Mataria, Cairo, Vol. 76, pp. 170-183, Aug. 2001.
- 34- Lotfy H. Rabie, **Hesham M. Mostafa** and M.G. Mousa "Combined Forced Convection And Radiation Heat Transfer From A Hot Cylinder At Constant Heat Flux To Cross Pulsating Flow," Engng. Resh. Jour., Helwan University, Faculty of Engng., Mataria, Cairo, Vol. 76, pp. 184-196, Aug. 2001.
- 35- M.G. Wasel, **Hesham M. Mostafa** and M.G. Mousa "Simultaneous Condensation-Evaporation Heat Transfer On A Vertical Tube, II- Theoretical Study," Mansoura Engineering Journal (MEJ), Vol. 26, No. 2, pp. M.28-M.38, June 2001.
- 36- M.G. Wasel, **Hesham M. Mostafa** and M.G. Mousa "Simultaneous Condensation-Evaporation Heat Transfer On A Vertical Tube, I- Experimental Study," Mansoura Engineering Journal (MEJ), Vol. 26, No. 2, pp. M.92-M.101, June 2001.
- 37- Lotfy H. Rabie and **Hesham M. Mostafa** "Heat Transfer In Laminar Pulsating Annular Flow Of Drag Reducing Dilute Polymer Solutions," Mansoura Engineering Journal (MEJ), Vol. 26, No. 2, pp. M.15-M.27, June 2001.
- 38- Lotfy H. Rabie and **Hesham M. Mostafa** "An Experimental Study For Heat Transfer In Laminar Pulsating Annular Flow," Mansoura Engineering Journal (MEJ), Vol. 26, No. 2, pp. M.54-M.65, June 2001.
- 39- M.G. Wasel and **Hesham M. Mostafa** "An Experimental Study For Natural Convection From A Hot Cylinder Surrounded By A Porous Medium," Mansoura Third International Engineering Conference (3rd IMEC), Vol. 1, pp. 49-60, April 11-13, 2000.
- 40- M.G. Wasel and **Hesham M. Mostafa** "Theoretical Study For Natural Convection From A Vertical Hot Cylinder Surrounded By A Porous Medium," Mansoura Third International Engineering Conference (3rd IMEC), Vol. 1, pp. 33- 47, April 11-13, 2000.
- 41- **Hesham M. Mostafa** and Abdel-Hamid M .Torki "Experimental Study For The Performance Of Externally Grooved Tubes In A Double Pipe Heat Exchanger," 11th International Mechanical Power Engineering Conference (IMPEC11), Vol. 1, pp. H138-H148, Cairo, Feb. (5-7) 2000.

- 42- **Hesham M. Mostafa** "Theoretical Study For The Effect Of The Cycle Operating Parameters On A Solar Driven Heat Engine Performance," 11th International Mechanical Power Engineering Conference (IMPEC11), Vol. 1, pp. R31-R41, Cairo, Feb. (5-7) 2000.
- 43- **Hesham M. Mostafa** "Effect Of Side Insulations On The Solar Still Performance," Ain Shams Scientific Bulletin, Vol. 34, No. 4, pp. 745-756, December 1999.
- 44- Helmy E. Gad and **Hesham M. Mostafa** "Working Substance Selection For A Solar Powered Pump In Toshke Environment," Mansoura Engineering Journal (MEJ), Vol. 24, No. 3, pp. M.26-M.42, September 1999.
- 45- **Hesham M. Mostafa** and Abdel-Hamid M. Torki "Thermal Model For MSF Distillation Plant," Mansoura Engineering Journal (MEJ), Vol. 24, No. 1, pp. M.52-M.64, March 1999.
- 46- **Hesham M. Mostafa** "Theoretical Analysis Of A Multi-Stage Flash Evaporator," Mansoura Engineering Journal (MEJ), Vol. 23, No. 3, pp. M.1-M.16, September 1998.
- 47- M.G. Wasel, A.A. Kamel and **Hesham M. Mostafa** "Theoretical Study Of Boiling Heat Transfer In A Thin Film On Horizontal Tube," Mansoura Engineering Journal, (MEJ), Vol. 21, No. 1, pp. M.12-M.21, March 1996.
- 48- M.G. Wasel, A.A. Kamel and **Hesham M. Mostafa** "Experimental Study Of Boiling Heat Transfer In A Thin Film On Horizontal Tube," Mansoura Engineering Journal, (MEJ), Vol. 21, No. 1, pp. M.1-M.11, March 1996.
- 49- S.F. Hanna, M.M. Mahgoub and **Hesham M. Mostafa** "Experimental Investigation Of Heat Transfer And Pressure Drop In A Vertical Rod-Bundle In Convective Boiling," Sicherer und Wirtschaftlicher Betrieb, Rekonstruktion Von Kernkraftwerken 16 und 17 Oktober, Dresden, Germany, 1990.
- 50- S.F. Hanna, M.M. Mahgoub and **Hesham M. Mostafa** "Investigation Of Pressure Drop In Upward Two-phase Flow In A Vertical Rod- Bundle," Third International Congress of Fluid Mechanics, Cairo, Jan. 1990.
- 51- S.F. Hanna, M.M. Mahgoub and **Hesham M. Mostafa** "Experimental Investigation Of Heat Transfer From A Vertical Rod-Bundle Into Two-Phase Flow," Mansoura Engineering Journal, Vol. 14, No. 2, Dec. 1989.

Certifications or Professional Registrations:

Honors and Awards:

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Teaching Experience:

Courses taught

- Heat and Mass Transfer.
- Power Plants.
- Thermal Engineering.
- Application of Heat Transfer.
- Thermo-fluid Lab A,B.
- Thermo-fluid Lab for Mechatronics
- Principles of Mechanical engineering.
- Energy Conversion Technology.
- Mechanical installations.
- Thermodynamics.
- Engineering drawing A,B.