

NABIL YASSIEN ABDEL –SHAFI



Address:

Department of Mechanical Engineering,
Faculty of Engineering, Assiut University, Assiut, Egypt
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PERSONAL:

Date of Birth: 2-4-1955
Citizenship: Egyptian
Marital Status: Married

Education :

Ph.D. Mechanical Engineering, Chiba University, Chiba, Japan, 1995.
Thesis: "Numerical Simulation of the Flow Over Wall with Protuberances"
M.Sc. Mechanical Engineering, Assiut University, Assiut, Egypt, 1986.
Thesis: "Cooling by Radiation to Cold Sky"
B.S. Mechanical Engineering, Assiut University, Assiut, Egypt, 1979.
Project: "Solar Pumping"
Major: Mechanical Engineering, Air Conditioning, Thermal and Environmental Science, Demand Side Management and Energy Efficiency.

Industrial Experience :

- 1- Design Engineer industry (1979-1982).
- 2- Participate in design of Mechanical Engineering Projects (1983-1989).
- 3- Participate in design of Air Conditioning Projects (1996-2004, part time).
- 4- Consultant, Project Directorate, King Abdul Aziz University, Kingdom of Saudi Arabia (2004- now).
- 5- Chair Member at King Abdu Aziz University, " Demand Side Management

and Energy Efficiency" (2008 – 2014)

Positions:

2004 – 2014 Vice President of the University of projects adviser, **King Abdul Aziz University, KAS**

2013 – 2014 Director of Energy Management Unit at **King Abdul Aziz University, KAS**

2012 – 2014 Participated in the founding of Emergency and Disaster Center, **King Abdul Aziz University, KAS**

2014 – now Director of Energy Management Center at **Assiut University, Egypt**

Academic Experience :

2004 – 2014 Associate Professor, Faculty of Engineering, **King Abdul Aziz University, KAS**

2002 – now Associate Professor, Department of Mechanical Engineering, **Assiut University, Assiut, Egypt**

1995 - 2002 Assistant Professor, Department of Mechanical Engineering, **Assiut University, Assiut, Egypt**

1991 - 1995 Research Assistant, Department of Mechanical Engineering, **Chiba University, Chiba, Japan**

1989 - 1991 Research Assistant, Department of Engineering Science, **Kyoto University, Kyoto, Japan**

1982 - 1989 Research Assistant and Assistant Lecturer, Department of Mechanical Engineering, **Assiut University, Assiut, Egypt.**

Teaching Experience :

(i) Undergraduate Courses:

Refrigeration and Environment Control, Air Conditioning, Engineering Agricultural Processes, Heat Transfer, New and Renewable Energy, Engineering Drawing, Workshop Technology, Mechanical Engineering Laboratories, Numerical Analysis, Engineering Analysis, Computer Programming.

(ii) Graduate Courses:

Convective Heat Transfer, Computational Fluid Dynamics, Fluid Mechanics and Dynamics, Solar Energy, Advanced Heat Transfer, Heat Exchangers.

Areas of Interest :

Refrigeration and Environment Control, Air Conditioning, Computational Fluid Dynamics and Heat Transfer, Cooling of electronics equipment, Greenhouse Environment, unconventional Energy, Demand Side Management, Renewable Energy.

TRAINING EXPERIENCE:

Experimental and theoretical training for the engineers, operators and technicians using on-line and off-line training kits, software, hardware tools and on-site field training. More than 50 training courses are delivered in different fields of

- Solar Radiation and Buildings: Utilization and Protection
- Air Conditioning.
- Demand side management
- Heat transfer
- Unconventional Energy.
- Renewable Energy.
- Principles of Maintenance
- Food Industrialization

Computer Experience :

Languages: FORTRAN and BASIC

Operating Systems: UNIX, MS DOS, and Macintosh Operating Systems.

Hardware: Main Frame, HP and AIX Workstations, Mac-Power, IBM-PC and Compatibles

Professional Affiliations :

Japanees Society of Mechanical Engineers (JSME)

Misr Society of Agricultural Engineering (MSAE)

Projects:

1. A.S.Huzayyin , A. Ayyad and N.Y.Abdel-Shafi, A Scientific Project Titled “West Energy in Portable Irrigation Pumps” Sponsored by the Council of Egyptian Universities ,1984- 1986.
2. Mazen Abdel-Salam, Abddel Moneim Nassib, N.Y.Abdel-Shafi and A Ezz El Deen “Analysis of Energy Consumption Pattern and Environmental Indicators for the Residential Sector of Assiut City- Egypt” Organization For Energy Planning Cairo-Egypt (OEP), 2002.
3. Mohamed Zaki El-Sadek, Vector H Morcos, N.Y.Abdel-Shafi and A Ezz El Deen “Analysis of Energy Consumption Pattern and Environmental Indicators for the Residential Sector of Louxor Town in Upper Egypt” Organization For Energy Planning Cairo-Egypt (OEP).
4. Badr A Habeebullah, Galal M Zaki, Yousef A Turki, and N.Y.Abdel-Shafi (consultant) “Study on Utilities Loading and Future Needs For King Abdul Aziz University Campus- Jeddah” Project No.606/427.

5. N.Y. Abdel-Shafi (consultant) "Study of Natural Ventilation and Passive Cooling for El-Harm in Make", 2008.

Publications :

1. N. Y. Abdel-Shafi, R. R. Obaid, and I. M. JOMAAH, "Cold Thermal Storage and Peak Load Reduction for Office Buildings in Saudi Arabia", Journal of Electronic Science and Technology, Vol. 4 No. 1, 2013.
2. Ibrahim M Jomoah, Sreerama Kumar, Abdulaziz Uthman, Nabil Y Abdel-Shafi, Ramzy R Obaid, "Ethernet TCP/IP Based Building Energy Management System in a University Campus in Saudi Arabia", Int. Journal of Energy and Environment, Vol.4, 2013.
3. Nabil Y. Abdel-Shafi, Ramzy R. Obaid and Ibrahim M. Jomoah "Thermal Energy Storage for Cooling Office Buildings in Saudi Arabia", Communicated to the IEEE Conference on (Saudi Arabia Smart Grid 2012), Jeddah, Dec. 2012.
4. M.M. EISSA, I. M. JOMAAH, N. Y. ABDEL-SHAFI, M. M. SALLAM , S. M. WASFY, " Load Management and Power Quality Monitoring Using Intelligent Monitoring and Controlling System for Commercial and Industrial Sectors", The 6th Exhibition of Electrical Industries in the Arab World, 15-17 November, Kuwait, 2009.
5. M.H Ahmed, N. Y. Abdel-Shafi and, Ali. K. Abdel-Rahman, " A Simple Network Model to Estimate the Transient Temperature of Flat Plate Heat Pipes", Journal of Engineering Science, Faculty of Engineering, Assiut University, 2009, Vol. 36, No. 6, pp. 1483-149.
6. N.Y. Abdel-Shafi, "Experimental Study on the Thermal Performance of a Heat Sink with Perforated Wavy Fins", Journal of Engineering Science, Faculty of Engineering, Assiut University, 2009, Vol. 36, No. 6, pp. 1483-149
7. Hamdy M. Shafey, Hamoud A. Al-Nehari and Nabil Y. Abdel-Shafi, " Modeling of the Heat and Mass Transfer through the Cover gas of a Sodium-Cooled Fast Reactor", Cairo 9th International Conference on Energy and Environment, Cairo, Sharm El-Sheikh, Egypt, 13-15 March, 2005.
8. Mohamed H. Ahmed, Thomas J. Barber, and Nabil Y. Abdel-Shafi "RANS Simulation of Forced Jet in Crossflow" Third Saudi Technical

Conference and Exhibition (STCEX-3), Riyadh , Kingdom of Saudi Arabia, 11-15 Dec., 2005.

9. Mohamed H. Ahmed, Thomas J. Barber, and Nabil Y. Abdel-Shafi “POD Snapshot Data Reduction For Periodic Fluid Flows”, 43rd AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada 10 - 13 January 2005.
10. N. Y. Abdel-Shafi, “Experimental Study of Thermal Performance of Heat Sinks with Folded and Wavy Fins’ Proceedings of IMEC2004 International Mechanical Engineering Conference, December 5-8, 2004, Kuwait.
11. H.A.Hassan, I.S.Taha, N.Y.Abdel-Shafi and A.Y.Turk ” Three Dimensional Transient Cooling of Enclosure Enhanced by Heat Sink, Part II: Parametric Study” , Journal of Engineering Sciences, vol. 32-No.2, Assiut university, April, 2004.
12. H.A.Hassan, I.S.Taha, N.Y.Abdel-Shafi and A.Y.Turk, ” Three Dimensional Transient Cooling of Enclosure Enhanced by Heat Sink, Part I: Comparison of Experimental and Numerical Results”, Journal of Engineering Scie., vol. 30-No.4, Assiut university, October, 2002.
13. N.Y.Abdel-Shafi, “Experimental Study of Forced Convection in a Partially Divided Cavity with Heat Source” Journal of Engineering Sciences, vol. 30-No.1, Assiut university, January 2002.
14. A.M.Abdel-Gany, T. Kozai, N.Y.Abdel-Shafi, I.S.Taha, and A.S.Huzayyin “Dynamic Simulation Modeling for Heat and Water Vapor Transfer in the Fluid-roof Greenhouse” J. Agric., Meteorol. 57 (4): 169- 182, 2001.
15. A.M.Abdel-Gany, I.S.Taha, N.Y.Abdel-Shafi, T. Kozai, and C. Kubot, “Investigation of the Spectral Optical Properties of the Liquid Radiation Filters for Using in the Greenhouse Applications” 12th International Mechanical Power Engineering Conference, Mansoura, Egypt, October 30th –November 1st, 2001.
16. A.M.Abdel-Gany, and I.S.Taha, and N.Y.Abdel-Shafi “Fluid-Roof Solar House for Transplant Production in Hot and Sunny Desert: Energy Consumption” Bulletin of the Faculty of Engineering, Assiut University, Vol.29, No. (2/1), pp 135-142, Sep. 2001.
17. A.S.Abo El-Lall, H.A. Mohamed, and N.Y.Abdel-Shafi “Mechanical

Compensated System for Low Speed Centrifugal Blower”
Compensated System for Low Speed Centrifugal Blower” Bulletin of
the Faculty of Engineering, Assiut University, Vol.29, No.2, pp. 91-
101, 2001.

- 18.A.M.Abdel-Gany, N.Y.Abdel-Shafi, I.S.Taha and A.S.Huzayyin
“Solar Radiation Transmission Through A Hollow- Channeled Fluid-
Roof Greenhouse Cover” Bulletin of the Faculty of Engineering,
Assiut University, Vol.28, No. 2, pp. 55-72, May 2000.
- 19.H.A. Mohamed, A.S.Abo El-Lall, N.Y.Abdel-Shafi and A. Ayyad
“Surge Control for Low Speed Centrifugal Blower” 14th Int.
Congress of Chemical and Process Engineering, 27-31, Praha, August
2000.
- 20.Ahmed Hamza H.Ail, Ibrahiem M.S.Taha and Nabil Y.Abdel-Shafi
“Shortwave and Longwave Radiation Fluxes and Cloud Pattern
Mapping using Satellite Surface Measurements over Egypt”
Proceeding of the 7th Int. Conf. On Energy and Environment, Cairo,
Egypt, pp. 187-201, 2000.
- 21.A.M.Abdel-Gany, N.Y.Abdel-Shafi, I.S.Taha and A.S.Huzayyin
“Solar Radiation Transmission Characteristics Through A Double-
Walled Greenhouse Cover” Bulletin of the Faculty of Engineering,
Assiut University, Vol.27, No. 1, pp. 111-128, January 1999.
- 22.Nabil Y.Abdel-Shafi “Natural Convection in a Partially Divided
Square Enclosure” 10th Int. Conf. on Mechanical Power Engineering,
pp. 221-236, Assiut, Egypt, 1997.
- 23.Nabil Y.Abdel-Shafi and N.Nishikawa “Numerical Analysis of Flows
Over Walls with Protuberances” Journal of Wind Engineering and
Industrial Aerodynamics, 46&47, pp.275-281, 1993.
- 24.Nabil Y.Abdel-Shafi, S.Tsutaki, Y.Itakura and N.Nishikawa
“Secondary Eddies in Flows Over Wall with Protuberances” Proc. of
the 5th Int. Symp. on Computational Fluid Dynamics, Sendai, Japan,
Vol. I, pp. 1-6, 1993.
- 25.Nabil Y.Abdel-Shafi, N.Nishikawa and Y.Kimura “Numerical
Analysis of Natural Convection Along Wavy Wall” Theoretical and
Applied Mechanics, Vol. 42, pp.263-270, 1993.
- 26.Nabil Y.Abdel-Shafi, N.Nishikawa and H.Sudou “Numerical Analysis

of Laminar Flows Over Wall with Protuberances” Theoretical and Applied Mechanics, Vol. 41, pp.213-222, 1992.

- 27.N.Nishikawa, Nabil Y.Abdel-Shafi and T.Abe “Laminar Flow Analysis Over Walls with Waviness” Proc. of the 4th Int. Symp. on Computational Fluid Dynamics, pp. 867-872, 1991.
- 28.Toshire Makino, Nabil Y.Abdel-Shafi, H.Murata and K.Mita “Scattering of Radiation at a Flake-Type Particle Having Fractal-Like Surface Geometry” Proc. 12th Japan Symposium on Thermophysical Properties, Kyoto, Japan, 1991.
- 29.Nabil Y.Abdel-Shafi, I.S.Taha, A.S.Huzayyin, and H.M.Shafe “Experimental and Parametric Study of Water Cooling by Radiation to Sky” Cairo Int. Symposium on Renewable Energy Sources, Egypt, 1988.
- 30.Nabil Y.Abdel-Shafi, I.S.Taha, A.S.Huzayyin, and H.M.Shafe “Theoretical Model for Water Cooling by Radiation to Sky” Int. Symposium on Applications of Solar and Renewable Energy, March 23-26, Cairo, Egypt, 1986.
- 31.Reports I, II and III of a Scientific Project Titled “West Energy in Portable Irrigation Pumps” Sponsored by the Council of Egyptian Universities (Oct.- Dec., 1984), (Apr.-June, 1985) and (Mar.- June, 1986).