CURRICULUM VITAE

***NAME***  : **MOHAMED MAHMOUD ABDELGHANY**

#### Professor of Thermal Engineering

#### and Fluid Mechanics

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***PERSONAL DATA*** :

*Date of Birth* : November 6, 1948.

*Place of Birth* : Elminia, Egypt.

*Martial Status* : Married

***EDUCATION*** :

***Ph.D.*** Mechanical Engineering, University of Kentucky, USA, May 1982.

***Field of Study*** : Fluid Dynamics.

***Thesis Title***: Experimental Study of Axial Flow in a Finite Array of Rods and the Application of Finite Element Technique to Flow in Ducts and Rod Bundles.

***M.Sc.*** Mechanical Engineering, Assiut University, Egypt, May 1975.

***Field of Study*** : Fluid Mechanics.

***Thesis Title*** : The Distortion of the Flow Field in a Circular Pipe Due to Insertion of a Circular Rod in the Pipe.

***B.Sc.***Mechanical Engineering, Assiut University, Egypt, June 1971.

***General Grade*** : Distinction with Honor.

***EMPLOYMENT HISTORY*** :

* ***Professor Emeritus***, Assiut University, Egypt , 2008 - present
* ***Professor***, Assiut University, Egypt , 1998 - 2008
* ***Coordinator (acting chairman) of the Mechanical Engineering Department,***

Faculty of Engineering, King Khaled University, KSA , 2004 - 2007

* ***Coordinator of the College of Engineering and Chairman of the***

***Mechanical Engineering Departmen****t.*, King Khaled Univ., KSA, 2001 - 2004

* ***Associate Professor***, Faculty of Engineering, Assiut University, Egypt, 1997 - 1998
* ***Associate Professor***, Faculty of Engineering, Sana'a University, Yemen, 1995 - 1997
* ***Coordinator (acting chairman) of the Mechanical Engineering Department***,

Faculty of Engineering, Sana'a University, Yemen, 1994 - 1995

* ***Associate Professor***, Faculty of Engineering*,* Assiut University, Egypt , 1989 - 1994
* ***Assistant Professor***, Faculty of Engineering, Assiut University, Egypt , 1983 - 1989
* ***Visiting Assistant Professor***, Faculty of Engineering, Univ. of KY, USA , 1982 - 1983
* ***Instructor***, Faculty of Engineering,University of Kentucky, USA, 1978 - 1982
* ***Assistant Lecturer***, Faculty of Engineering , Assiut University, Egypt , 1975 - 1977
* ***Demonstrator***,Faculty of Engineering, Assiut University, Egypt, 1971 - 1975

***TEACHING EXPERIENCE*** :

* ***Undergraduate Courses*** :

Fluid Mechanics - Thermodynamics - Hydraulic Machines - Renewable Energy - Environmental Engineering - Engineering Experimentation - Technical Writing and Introduction to Engineering - Engineering Drawing - Computer Programming with Applications in Mechanical Engineering.

* + ***Supervised B.Sc Projects***:

Domestic and Industrial Applications of Solar Energy - Water Desalination and Heating and Space Heating using Solar Energy - Study of Atomization Characteristics using Laser Doppler Anemometer – Design of the Network for Potable Water and Evaporators Cooling Water Supply to a Livestock Farm - Design and Construction of an Evaporator for an Ice Making Plant Test Rig - Design and Construction of a Condenser of an Air Conditioning Test Rig – Design of Cooling Towers - Design of Petroleum Fuels Transmission Pipeline in the Southern Region of Saudia Arabia - Design of a Automatic Fire Alarm System for the Mechanical Engineering Department Workshop, Assiut University – Development of Heat Exchangers System for Crude Oil Heating in Assiut Refinery Company.

* ***Graduate Courses :***

Turbulent Flow - The use of Laser Anemometry in Fluid Measurement - Advanced Thermodynamics - Solar Energy - Energy Conversion - Numerical Analysis - Engineering Systems Analysis - Fine Particle Technology - Principles of Industrial Maintenance.

* ***Continuing Education Training Courses for Engineers and Technicians :***

Condensed training courses have been prepared and taught to engineers and technicians working in Egypt Aluminum Company, Assiut Cement Company, Egyptian Sugar and Integrated Industries factories, and Assiut Petroleum Refinery. These courses include : Heat Exchangers – Air Pollution - Measurement Techniques and Industrial Instrumentation Systems - Application of Vibration Measurements in Machinery Health Monitoring, and Predictive Maintenance.

***RESEARCH EXPERIENCE* :**

* ***Published papers and conducted researches in the fields of*** : Computational Fluid Dynamics - Turbulent Flows - Air Pollution - Solar Energy Applications (Water Heating and Desalination ) - Thermal Energy Storage - Engineering Application in Agriculture.

***- Awarded an Honor Certifiate from Assiut University******for the Best Research in Engineeering science*** *Faculty of Engineering, 1998/1999.*

* ***Participated as supervisor or co-supervisor of M.Sc. and PhD theses in the fields of :*** Fluid Mechanics - Turbulent flow- Computational Fluid Dynamics - Hydraulic Machines – Thermal Energy Storage - Solar Energy Applications – Microfluidics – Cooling of Electric Equipment - Engineering Applications in Agricultural - Application of Vibration Measurement in Maintenance of Industrial Machinery.
* ***Participated as Co-Principal Investigator in a Research Project*** titled: "Air Pollution Monitoring and Evaluation of the Factors affecting the Concentration of Pollutants in the Regions of Sugar Factories and Adjacent Regions in Upper Egypt". The project was carried in the frame of scientific cooperation between Assiut University and Sugar and Integrated Industries, Egypt, 1992-1994.
* ***Reviewing and Refereeing* *of Research Projects, Reports and Scientific Research Papers :***

1. ***Reviewing and Refereeing Research Projects*** (Proposals, Periodical and Final Reports) submitted to :
   * The Faculty of Engineering, Assiut Univ., Egypt, since 1998.
   * The Scientific Research Council of King Abdualaziz University, Kingdom of Saudia Arabia, 2001–2004.
2. ***Reviewing and Refereeing Scientific Papers*** (1998 – on)submitted to :

* The Journal of **Engineering Science**, the Faculty of Engineering, Assiut University, Egypt
* **Solar Energy** , the International Solar Energy Society.
* The Journal of **Engineering and Applied Science**, the Faculty of Engineering, Cairo University, Egypt.
* The **Bulletin of the Faculty of Engineering**, Minia University, Egypt.
* The Journal of **Environmental Science** , Sohag University, Egypt.
* ***Fields of Interest and On-Going Researches:***
* Solar Energy Applications and Renewable Energy Utilization
* Comparative Study of the Performance of Over and Under-ground Tanks in Thermal Energy Storage.
* The effect of Underground Tanks Arrangement Pattern on its Performance in Thermal Energy Storage.

***PROFESSIONAL EXPERIENCE*** :

* **Supervised and participated in the work and activities of several academic and scientific committees** in the Faculties of Engineering in Assiut University - Egypt, King Khaled University - KSA, and Sana'a University – Yemen that include :
* Participating in **developing and restructuring of the undergraduate studies (BSc.) by-law** **of the Mechanical Engineering Department – Assiut University**, 2013-2014.
* Participating in **developing and restructuring of the graduate studies by-law of the Mechanical Engineering Department – Assiut University**, 2009-2010, 2013-2014.
* Participated as co-coordinator of the committee for **preparation of a project proposal for establishment of a "** *New and Renewable Energy Research", a center of excellency* **at Assiut University.** The proposal has been submitted to the Science and Technology Development Fund (STDF), Egypt, March 2010.
* Participating in the work of **committee for Faculty of Engineering, Assiut University quality assurance system implementation and preparation of self-study report submitted for Faculty accreditation to the NCQAA** (National Committee for Quality Assurance and Accreditation) Ministry of Higher Education and scientific Researches, Egypt , 2008-2010.
* Participating in **preparation and development of the academic standards for the Mechanical Power Engineering program , Faculty of Engineering, Assiut University**, 2008-2010.
* Participating in **developing and restructuring of the undergraduate academic program and curricula for the Mechanical Engineering, and Industrial Engineering Departments, Faculty of Engineering, King Khaled University, Abha, KSA**, 2005-2007.
* Supervising and participating in **the evaluation of academics jobs applications and interviewing committee, Faculty of Engineering, King Khaled University**, 2001-2008.
* **Participated** (as a **member of the Engineering Studies and Consultation Center, Faculty of Engineering , Assiut University, Egypt**, 1984 – 2001, 2008- present) ***in several projects*** that include :
* ***Preparation of the technical specifications, commissioning and technical inspection upon supply*** of different Paving Equipment for Assiut Governorate 2011-2015.
* ***Inspection and technical evaluation of the Industrial Safety and Occupational Health Systems*** installed in Ultra factory for Medical Product, Industrial city, Arab El-Awamer, Abnoub, Assiut, 2014.
* ***Preparation of the technical specifications, commissioning and technical inspection upon supply*** of different loading capacities Truck Mounted Telescopic Crane for Assiut Governorate 2009-2011.
* ***Preparation of the technical specifications of Medical gases systems*** for : Al-Eman General Hospital, and Al-Eman Maternity Hospital, Assiut 2009- 2010.
* ***Inventory and evaluation of the equipment and contents*** of Engineer Factory of Casting, Industrial city, Arab El-Awamer, Abnoub, Assiut, 2009.
* ***Evaluation and Feasibility Studies*** of Assiut Governorate printing project, 2008.
* ***Evaluation and Feasibility Studies*** of the work of several companies in Sohag financed by the Egyptian National Bank, 2001.
* ***Monitoring and Measurement of Pollutants concentration*** for the Organization of Environmental Affair in Assiut, 2000.
* ***Development of Laundry Department*** for Abu-Teag General Hospital and Assiut Fevers (Elhomeyat) Hospital, 1999.
* ***Monitoring and Measurement of Pollutants concentration*** in the Industrial City of Assiut, and in Mubark Alexandria village, Assiut, 1999.
* ***Testing and calibration of pressure measurement instruments and Pipe lines testing*** in Irrigation Development projects implemented in several areas in Assiut Governorate, Ministry of Irrigation and Water Resources, 1993-1994.
* ***Preparation of the technical specifications, commissioning and implementation of*** Chicken slaughtering house (1000 chicken/hr) including the freezing and cold store, General Organization of the New Valley Development and Reconstruction, 1985.
* ***Preparation of the technical specifications of*** Ice transporting trucks (5-10 tons carrying capacity), Assiut National Company for Ice and Refrigeration, 1984.
* **Supervised the commissioning and installation** of all equipment of the preparatory year workshop, mechanical engineering workshop, and several laboratories in the Mechanical and Industrial Engineering Departments, Faculty of Engineering, King Khaled University, KSA, 2001-2007. These laboratories include: *Drawing and Auto-cad, Thermodynamics, Fluid Mechanics, Air Conditioning and Refrigeration, Material testing, Automatic-Control, and Industrial Engineering Laboratories.*
* **Participated in the development of a** *G.U.N.T Device " TM 262 Hertzian Contact Apparatus"*, Supplied to the Faculty of Engineering, King Khaled University, KSA, February 2006.

**-** *Awarded an appreciation Certificate from the Research and Development Department, GUNT Hamburg , Equipment for Engineering Education, February 2006*.

* **Participated in the commissioning and installation** of equipment for *portable and wheeled fire extinguishers* Dry Chemical Recovery and Filling Unit in Assiut University, 1999.
* **Participated in the commissioning and installation** of equipment of the Mechanical Engineering Department workshop, Faculty of Engineering, Sana'a Univ., Yemen 1994 –1997.
* **Participated in the commissioning and installation** of all equipment of the *Computer, Laser and Pollution Laboratories*, Faculty of Engineering, Assiut University, Egypt, 1983-1988.

***MEMBERSHIPS of Professional Associations , Academic Councils and Committees :***

* Member, Syndicate of Egyptian Engineers, Egypt 1971 – on
* Member, Egyptian Society of Mechanical Engineers, Egypt 1971 – on
* Member, Honorary Society of Sigma Xi, the Scientific Research Society, University of Kentucky Chapter, USA, 1982.
* Member of the Council of Mechanical Engineering Dept., Assiut University, 1983- present.
* Member of the Mechanical Engineering Department Consultation Office, 1985-1992.
* Member of the Board and Technical Committee of Assiut University Computer Center 1989-1990.
* Member of the Engineering Studies and Consultation Center of the Faculty of Engineering , Assiut University, 1992-Present
* Member of the Committee for Solar and Wind Energy utilization development in Upper Egypt, in collaboration with the Ministry of General Works and Water Resource, Egypt, 1999.
* Member of the Board of Directors of Assiut University Print Shop, 2000-2001
* Member of the Postgraduate Studies and Research Committee of the Faculty of Engineering, Assiut University, 2009-present.
* Member of the Council of the Faculty of Engineering, Assiut University, 2010 – 2011.

***ATTENDED TRAINING PROGRAMS*** :

* *Principles and Applications of Laser in Measurements* : Supreme Council of Universities, Cairo, Egypt, March 1987.
* *The Use of Pollution Monitoring Equipment*: Edusystems Inc., Walworth, Wisconsin, USA, June 1989.
* *The Internet*, Assiut University Computer Center, February 1998 and March 1999.

***CONFERENCES & SYMBOSIUMS :***

1. ***Participation in preparation and organization :***

* Member of the organizing committee of three conferences related to several national and international issues that include: *Education (October 1990), Production (April 1992) and Media and Culture (October 1993)* Issues which were organized by Assiut University Staff Members Club and sponsored by Many National Organizations and Associations.
* Member of the organizing committee of the 1 st International Symposium on *: Sugar and Integrated Industries Present and Future*, 17-19 December 1996 , Luxor, Egypt.
* Member of the organizing committee of the 10 th International Conference on *Mechanical Power Engineering* 16-18 December, 1997 , Mechanical Engineering Department, Faculty of Engineering, Assiut University, Egypt.
* Member of the organizing committee of the 1 st International Conference on: *Sugar and Integrated Industries Present and Future,* 15-18 February 1999, Luxor, Egypt.
* Helping in preparation for the 2 nd Assiut University International Conference on *Mechanical Engineering Advanced Technology for Industrial Production (MEATIP 2)* 2-4 March, 1999 , Mechanical Engineering Department, Faculty of Engineering, Assiut University, Egypt
* Member of the organizing committee of the International Conference on : *The role of Arab Region in the World Sugar Economy*, organized by the International Sugar Organization, Assiut University Sugar Technology Research Institute and the Egyptian Sugar Industries, 18-21 Febreuray 2001 , Luxor, Egypt.

1. ***Participation by presentation of scientific and technical papers and/or attendance :***

* Sixth Biennial Symposium on Turbulence, Rolla , Missouri , USA, October 1979.
* AIAA/ASME 3 rd Joint *Thermophysics, Fluid, Plasma & Heat Transfer Conference*, St. Louis, Missouri, USA, June 1982.
* Second International Topical Meeting on *Nuclear Thermal- hydraulics*, Santa Barbara, California, USA, January 1983.
* International Conference on *Numerical Methods in Nuclear Engineering*, Montreal, Quebec, Canada, September 1983.
* Second Minia Conference on *Energy and its Applications*, Minia, Egypt, January 1988.
* Cairo International Symposium on *Renewable Energy Sources*, Cairo, Egypt, June 1988.
* Fourth Cairo Univ. Conference on *Mechanical Design and Production*, Cairo, Egypt, December 1988.
* International Conference on *Applications of Solar & Renewable Energy*, Cairo, March 1989.
* Symposium on: *Towards Better Interaction between the University and Industry*, Assiut University, Egypt, March 1991.
* First Egyptian- Italian Symposium on *Biotechnology*, Assiut, November 1992.
* Third International Congress of *Project Engineering*, Espana, Spain, September 1996.
* Symposium on : *Water and Future in South Valley* , Assiut University, Egypt, December 1997.
* Symposium on : *Traffic and Air Pollution in Assiut*, Assiut University, Egypt, December 1997.
* Tenth International Conference on *Mechanical Power Engineering*, Assiut, Egypt, December 1997.
* Ninth International Symposium on *Unsteady Aerodynamics, Aeroacoustics and Aeroelasticity of Turbomachines* , ISUAAAT’2000 , Lyon, France, September 2000.
* First Symposium on *Water Resources Pollution and its Control Strategy*, (Sponsored by Assiut University and Kyung Hee University, Korea), February 2001.

***LIST OF PUBLICATIONS : Forty Research and Technical Papers and Books in the fields of Interest ( list of publication is available upon request ).***

***قائمة البحوث المنشورة للأستاذ الدكتور / محمد محمود عبد الغني***

**الأستاذ بقسم الهندسة الميكانيكية - كلية الهندسة - جامعة أسيوط**

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# *Prof. Dr. Mohamed M. Abdelghany*

## **LIST OF PUBLICATIONS**

**أولا :  *البحوث* :*Published Papers***

1- **Abdelghany*,*** M.M.; A. A. Elsaidy ; and O.K. Tewfik : ” The Distortion of the Flow Field in a Circular Pipe Fitted with a Rod ”, Bulletin of the Faculty of Engineering, Assiut University, Vol. 5 , No. 2 , July 1977, PP. 37-56.

2- Roco , M.C. ; and M. **Abdelghany** : “ Numerical Analysis of Solid Particle Distribution in Centrifugal Pump Volutes”, AIAA/ASME Joint Fluids, Plasma, Thermophysics and Heat Transfer Conference. St. Louis, Mo. June 1982, PP.54-56.

3- **Abdelghany,** M.; M.C. Roco ; and R. Eichhorn : “ A Simplified Finite Element Model for Fully Developed Axial Turbulent Flow in Rod Bundles “, Nuclear Science and Engineering , Vol. 85, 1983, PP. 1-16 .

4- **Abdelghany** , M ; and M.C. Roco : “ Anisotropic Turbulent Flow in Rod Bundles” , Nuclear Science and Engineering, Vol.87, 1984, PP. 469-478.

5- **Abdelghany**, M. ; and R. Eichhorn : “ Measurements of Wall Shear Stress in Axial Flow in a Square Lattice Rectangular Rod Bundle “, J. of Fluids Engineering, Trans. of ASME, Vol. 108, 1986,PP. 166-173.

6- **Abdelghany** , M. M; and O. M. Abdelhafez : “ Prediction of Secondary Flows in Non-Circular Ducts Using Finite Element Technique “, 2nd Minia Conference on Energy and its Applications, January 12-14 ,1988, PP. 253 - 266.

7- Ismail, I. M. **Abdelghany** , M. M.; and M.H. Saadawi : ” Design of Closed Cooling Cycle for Engines in Assiut University Heat Laboratory “, 2nd Minia Conference on Energy and its Application, January 12-14, 1988, PP. 385-394 .

8- Amin, M. ; M. M. **Abdelghany** ; Y.A. Elheany ; and A.S. Huzayyin : ” Prediction of Liquid Atomizer Performance in Boom-wise Direction”, Misr J. of Agriculture Engineering, Vol. 5 (2), 1988, PP. 139-148.

9- Amin, A.; M. M. **Abdelghany**; Y. A. Elheany; and A. S. Huzayyin : ” Overlapping of Rotary Atomizers Spray Patterns”, Misr J. of Agriculture Eng., Vol. 5 (2), 1988, PP.149-158.

10- **Abdelghany** , M. M. ; H. M. Ibrahim ; and A. S. Huzyyan : “ The Use of Computer in Issuing the Final Results of Students “, A Non-Periodical Report issued by the Faculty of Engineering , Assuit University, May 1988. PP. 1-16.

11- **Abdelghany** , M. M.; and I.M. Ismail : “ Simulation of Industrial Waste Heat Recovery Storage System”, Cairo International Symposium on Renewable Energy Sources, June 13-16, 1988.

12- Nassr, A.A.; M.M **Abdelghany** ; and A.A. Khalil : “ Solution of Contact Problem for a Rod Inserted in a Block Using the Finite Element Technique “, Bulletin of the Faculty of Engineering , Assiut University, Vol. 16, No.2 , July 1988, PP.91 - 104.

13- Amin , A.; M.M. **Abdelghany**; Y. A. Elheany; and A. S. Huzayyin: “ Experimental Investigation of Rotary Atomizers Spray Patterns : Effect of Operating Conditions and Atomizer Shape” , Misr J. of Agriculture Eng., Vol. 5 (4), 1988, PP. 317 - 328.

14- Nassr , A. A., Khalil, A. A; and M. M. **Abdelghany** : “ Stress Analysis of Contact Problems Using the Finite Element Method “, 4 th Cairo University Conference on Mechanical Design and Production, December 27-29 ,1988, PP. 247 - 252.

15- **Abdelghany** , M.M.; and A.S. Huzayyin : “A Generalized Overlapping Model for Atomizers Spray Patterns”, Misr J. of Agriculture Eng., Vol. 6 (1), 1989, PP. 3 - 12.

16- Wassef, F.M.; M. M. **Abdelghany**; and M.S. Youssef : “ Predictions of Turbulent Boundary Layers Under Adverse Pressure Gradient Conditions Including Separation “, Bulletin of the Faculty of Engineering, Assiut University, Vol.17, No. 2, July 1989, PP. 33-39.

17- **Abdelghany ,** M. M.; and M. M. S. Ahamed : “ Thermal and Hydrodynamic Analysis of Collectors Arrangement and Piping Network of Medium Temperature Solar Heating Systems”, Bulletin of the Faculty of Engineering, Assiut University, Vol. 18, No.1, January 1990, PP. 60- 67

18**-** Ahamed, M. M. S.; and M.M. **Abdelghany** : “ Study and Analysis of Thermal Behavior and Performance of Optimized Solar Collectors Fields for Industrial Process Heat Applications “, Bulletin of the Faculty of Engineering, Assiut University, Vol. 18, No. 2, July 1990, PP. 95-104.

19**- Abdelghany,** M.M.; I. M. Ismail; and I. S. Taha: “ Analysis and Comparison of the Performance of Overground and Underground Thermally Stratified Storage Tanks”, Bulletin of the Faculty of Engineering , Vol. 22, No. 2 , July 1994, PP. 113- 128.

20**- Abdelghany** , M. M : ” Parametric Study of Performance Enhancement of Underground Thermally Stratified Storage Tank“, Bulletin of the Faculty of Engineering, Assiut University, Vol. 23, No.1, January 1995 ,PP. 85-96.

21- Morsy, M.G.; M. M. **Abdelghany**; O. M. E. Abdel-Hafez; and A. M. Nassib : “ Experimental Determination of the Levels of Total Particulate Matters Concentrations in the Ambient Air Resulted from Sugar Factories Emission Sources “, Proceedings of the First Egyptian-Syrian Conference in Chemical Engineering, College of Petroleum and Mining, Al-Suez, Egypt, October 2-5, 1995, PP. 338-351.

22- Morsy, M.G.; M.M. **Abdelghany**; A. M. Nassib; and O. M. E. Abdel-Hafez : “ The Effect of Sugar Cane Industry on Ambient Air Quality : A Field Investigation of Gaseous Pollutants Concentration Levels “, Proceedings of the First Egyptian-Syrian Conference in Chemical Engineering, College of Petroleum and Mining, Al-Suez, Egypt ,October 2-5, 1995, PP. 352-372.

23- **Abdelghany**, M. M., and M. R. Bayoumi , “ Towards a Comprehensive Methodology to Solve the General Transport Phenomena Problems “, Proceedings of the III International Congress of Project Engineering, Barcelona and Terrassa, Spain , September 12 -14 , 1996, PP. 1395-1404.

24**- Abdelghany**, M.M. : “Comparative Study of Thermal Stratification in Horizontal and Vertical Storage Tanks”, Bulletin of the Faculty of Engineering, Assiut University, Vol. 25, No. 2, July, 1997, PP. 115-126**.**

25- **Abdelghany**, M. M.; D. A. Yates ; and A.M. Bagabir: " Numerical Simulation of Two-Dimensional Flow and Heat Transfer Around a Hexagonal-Shaped Combustion Chamber" , Bulletin of the Faculty of Engineering, Assiut University, Vol. 26, No. 1, January 1998, PP.61-75.

26- **Abdelghany**, M. M.: “ Performance Analysis of an Integrated Water Heating-Distillation Solar System for Domestic Use in Rural and Remote Areas’’, Bulletin of the Faculty of Engineering, Assiut University, Vol. 26, No. 2, July 1998, PP.125-139.

27- Hassan, A. S., O. M. Abdel-Hafez, I. M. Hassab-Allah; and M. M. **Abdelghany, “** Numerical Study of Unsteady Flow in a Radial Vaned Diffuser”, Presented in the 9th International Symposium on Unsteady Aerodynamics, Aeroacoustics and Aeroelasticity of Turbomachines , ISUAAAT’2000 , Lyon, France, Sept. 4-8, 2000.

28- Hassan, A. S., O. M. Abdel-Hafez, I. M. Hassab-Allah; and M. M. **Abdelghany, “** NumericalStudy of The Flow in Vaneless and Vaned Diffusers of a Centrifugal Compressor “, Bulletin of the Faculty of Engineering, Assiut University, Vol. 29, No. 1, PP. 135 – 147, January 2001.

29- El-Dosoky, M. F., Abdel-Hafez, O. M., **Abdelgany**, M. M. And Ayyad, A. K.,” Analytical Investigation of Oscillations Associated with Cavitating Inducers”, The 16-th International Conference on Hydropower- HYDROTURBO 2001- Podbanské, Slovak Republic, October 9 -11, 2001.

30- El-Dosoky, M. F., Abdel-Hafez, O.M.E., **Abdelgany**, M.M., Ayyad, A. K. , “An Experimental Study of the Effect of Inducer Geometrical Parameters on the Performance of a Centrifugal Pump”, The 16-th International Conference on Hydropower- HYDROTURBO 2001- Podbanské, Slovak Republic, October 9 -11, 2001.

31- El-Dosoky, M. F., Abdel-Hafez, O.M.E., **Abdelgany**, M.M., Ayyad, A. K., “An Experimental Study on the Improvement of the Suction Performance of a Centrifugal Pump Due to Inducer Installation”, The 16-th International Conference on Hydropower- HYDROTURBO 2001- Podbanské, Slovak Republic, October 9 -11, 2001.

33- Hassan, A. S., O. M. Abdel-Hafez, I. M. Hassab-Allah; and M. M. **Abdelghany**, “Numerical Study of Unsteady Flow in a Radial Vaned Compressor ", Bulletin of the Faculty of Engineering , Assiut University, Vol. 30, No. 1 , January 2002.

34- O. M. Abdel-Hafez, A. S., Hassan, I. M. Hassab-Allah; and M. M. **Abdelghany**, “Enhancement of Centrifugal Compressor Diffuser Performance with Small Vanes Installation ", Bulletin of the Faculty of Engineering , Assiut University, Vol. 30, No. 2 , PP. 403-421, April 2002.

35- Mahran , M.A., I. S. Taha, **Abdelghany**, M.M., and I. M. Ismail : “ Comparative Study of the Performance of Underground and Overground Tanks in Seasonal Storage of Thermal Energy”, J. of Engineering Sciences, Assiut University , Vol. 32, No. 2, PP. 785-903, April 2004.

36- Mahran , M.A., I. S. Taha, **Abdelghany**, M.M., and I. M. Ismail : ” Theoretical Study of the Performance of Underground and Overground Tanks in Seasonal Storage of Thermal Energy”, J. of Engineering Sciences, Assiut University , Vol. 32, No. 3, PP. 1211-1231, July 2004.

37- Al-Nahari, W.J. , El-Dosoky, M.F.F., **Abdelghany**, M.M., and Shafey, H.M. : ” Development, Verification and Validation of an In-House CFD Code for Weakly Compressible Flow”, J. of Engineering Sciences, Assiut University , Vol. 42, No. 5, PP. 1193-1214, September 2014.

**ثانيا :  *الكتب* : *Published Books***

- **لغة الفورتران**

تأليف : حسن طاهر درة , محمد كامل الشربيني , **محمد محمود عبد الغني**

نهضة مصر للطباعة والنشر – الفجالة – القاهرة 1989م

رقم الايداع 3910 / 89 الترقيم الدولي 0 - 0270- 08 - 977 ISBN

- **مقدمة في علم الحاسبات**

تأليف : محمد كامل الشربيني , **محمد محمود عبد الغني** , حسن طاهر درة

نهضة مصر للطباعة والنشر – الفجالة – القاهرة 1989م

رقم الايداع 8774 / 89 الترقيم الدولي 4 - 0315- 08 - 977 ISBN

- **لغة البسيك**

تأليف : **محمد محمود عبد الغني** , حسن طاهر درة , محمد كامل الشربيني

نهضة مصر للطباعة والنشر – الفجالة – القاهرة 1990م

رقم الايداع 2459 / 90 الترقيم الدولي 4 - 0346- 08 - 977 ISBN