

Resume of Dr. Metwally Hossien Metwally

Manufacturing Engineering and Production Technology Department

RESUME

Name: Metwally HossienMetwally



Education:

- PhD** **Specialization:** Mechanical and Aerospace Engineering
 Awarded by: Illinois Institute of Technology, Chicago, USA, Dec. 1990
- Diploma** **Specialization:** None
 Awarded by: None
- MSc** **Specialization:** Mechanical Engineering
 Awarded by: Cairo University, Cairo, Egypt, March 1984
- BSc** **Specialization:** Mechanical Engineering
 Awarded by: Military Technical College, Cairo, Egypt, June, 1977

Positions Occupied and work experience

- Full-time Instructor, Manufacturing Engineering and Production Technology Département, Modern Academy in Maadi, Cairo, Egypt, 2004.
- Part-time Instructor, Mechanical engineering department, 10th of Ramadan Institute, Cairo, Egypt, 2002.
- Part-time Instructor, Mechanical Power Department and Energy, M.T.C, Cairo, Egypt, 1998.
- Technical Researcher, Research and Development Center, Cairo, Egypt, 1997.
- Staff-member, Department of Mechanical Power, and Energy, M.T.C., Cairo, Egypt, 1991.
- Research Assistant, Fluid Dynamic Research Center, IIT, Chicago, USA, 1986.
- Staff-Member, Materials and Processing Department, M.T.C, Cairo, Egypt, 1983.

Post graduate activities:

Member of supervising board for Master of Science in the faculties of engineering of the Military Technical College and Helwan University.

Lectured Courses:

M561, M583, M331, MNF210.

Authored books:

- **Metwally, H. M.,** Thermo-Fluid Machinery, Printed lectures, Modern Academy in Maadi, Cairo, Egypt, , Cairo, 2004 (Lecture Notes).
- **Metwally, H. M.,** Mechanical Engineering Technology, Printed lectures, Modern Academy in Maadi, Cairo, Egypt, , Cairo, 2006 (Lecture Notes).
- **Metwally, H. M.,** Automatic Control for Mechanical Engineers, Printed lectures, Modern Academy in Maadi, Cairo, Egypt, , Cairo, 2006 (Lecture Notes).
- **Metwally, H. M.,andA., A. Abdalla,** Engineering Economy, Printed lectures, Modern Academy in Maadi, Cairo, Egypt, , Cairo, 2008 (Lecture Notes).
- **Metwally, H. M.,andA., A. Abdalla,** Heat Transfer, Printed lectures, Modern Academy in Maadi, Cairo, Egypt, , Cairo, 2008 (Lecture Notes).

Current Position:

Instructor in Manufacturing Engineering and Production Technology Département, Modern Acadmyin Maadi, Cairo, Egypt.

No of Published Papers		Supervised Thesis	
Last 5 years	Total	MSc	PhD
1	17	2	-

PUBLISHED PAPERS

The following are the papers published in refereed local conferences, journals and scientific bulletins.

15. 2015 **Zohry N.H., El-badawy A.A., Rabie M. G., Metwally H.**
Investigation of Dynamic Behavior of Electrohydraulic Pressure- Compensated Proportional Flow Control Valve.
Eng. Res. Bulletin of Fac. of Eng. &Tech., Mataria, Univ. of Helwan, Vol.148, December 2015.
14. 1999 **Metwally H. M., M. Atta**
An Experimental Study on Vortical Flow Structure Development Over a NACA 0012 Airfoil Using Horizontal and Vertical Smoke-Wire Techniques
Proceedings of 1st International Conference for Advanced Trends in Engineering, Minia University, Egypt, March, 1999.
13. 1998 **Metwally H. M., and M. ElSharnoby**
A Perturbation Technique for Analysis of the Characteristics of Laminar and Turbulent Newtonian Lubricants in Rough Bearings
Proceedings of 8th International Conference in the 8th AMME Conf., M.T.C., Cairo, Egypt, May, 1998.
12. 1997 **M. ElSharnoby and Metwally H. M.**
Theoretical and Experimental Investigation of Some Lateral Control Derivatives of Rectangular Wing
Proceedings of 7th International Conf. on Aerospace Sciences & Aviation Technology, M.T.C., Cairo, Egypt, May, 1997.
11. 1996 **Metwally H. M.**
Dynamical Scaling Properties of the Unsteady Separating Flow
Proceeding of 7th International Conference in Applied Mechanics and Mechanical Engineering, Cairo Univ., Egypt, 1996.
10. 1995 **Moghazy, M., Aboul, M., and Metwally, H. M**
Experimental and Computational Study In discharging of Gases from Weapon Barrels
Proceeding of 6th International Conf. on Aerospace Sciences & Aviation Technology, M.T.C., Cairo, Egypt, Dec., 1995.
9. 1995 **M. ElSharnoby and Metwally H. M.**
Similar Effects of Temperature and Viscosity on the Stability of Supersonic Boundary Layer
Proceeding of the 5th International Conf. of Fluid Mechanics, Cairo Univ., Egypt, March 1995.
8. 1995 **Metwally H. M. and M. ElSharnoby**
Characteristics of a Controlled Flow Field by Leading Edge Suction
Proceedings of 5th International Conference of Fluid Mechanics, Cairo Univ., Egypt, March 1995.

7. 1994 **Metwally H. M.**
Toward Optimum Energy consumption in Dynamic Stall Control
Proceeding of 4th International Conf. on Energy, Development, and Environment, Cairo Univ., Cairo, Egypt, Jan., 1994.
6. 1992 **Metwally H. M., and Achrya, M.**
Unsteady Pressure Field and Vorticity Production over a Pitching Airfoil
AIAA Journal, v. 30, no. 2, Feb. 1992.
5. 1991 **Mondivides, R., Achrya, M., and Metwally H. M.**
The Reactive Control of An Unsteady Separating Flow
29th AIAA Aerospace Science Meeting, Nevada, Jan, 1991.
4. 1990 **Achrya, M., and Metwally H. M.**
Evolution of the Unsteady Pressure Field and Vorticity Production at the Surface of A pitching Airfoil
21st AIAA Fluid Dynamics, Plasma Dynamics and Lasers Conf., Seattle, WA, June 1990.
3. 1989 **Metwally H. M.**
A Uniform Two-Dimensional Jet
Internal Report, Fluid Dynamics Research Center, I.I.T, Chicago, Illinois, Sept. 1989.
2. 1985 **S. M. Riad, and Metwally H. M.**
Towards an Improved Shear Strength of Gray Cast Iron Soldered Joints
Proceedings of Cairo University Conference, Department of Mechanical Design and Production Engineering, Cairo University, Egypt, Dec. 1985.
1. 1983 **Metwally H. M.**
Soldering of Gray Cast Iron
Proceeding of the 2nd PEDAC's International Conference, Department of Production Engineering, University of Alexandria, Egypt, Dec. 1983.