

Resume of
Prof. Dr. Nabil Abdel Hamid Gadallah

Manufacturing Engineering and Production Technology Department

RESUME

Name : Nabil Abdel Hamid Mohammed GADALLAH



EDUCATION:

Ph.D.: In mechanical engineering in the field of Tribology from Claude Bernard University, INSA de Lyon, and L'Ecole Central de Lyon, France, 1980. Thesis entitled: "Effect of the Geometry and Kinematics Conditions on the Film Thickness and Force of Friction in Lubricated Point Contacts".

M.Sc.: in mechanical engineering in the field of Tribology from Claude Bernard University, Lyon I, France, 1978. Thesis entitled: " Effect of the kinematics Conditions on the Film Thickness and Force of Friction".

P.G.Diploma Project: in the field of " Theory and Design of Rocket Launchers ", entitled The Equilibrator of Rocket Launcher - Properties of Rocket Launcher Balancer", MTC, 1973.

B.Sc.: in mechanical engineering (Rockets), Military Technical College (MTC), 1972, with graduation grade "Excellent", and GPA "Very Good".

POSITIONS OCCUPIED AND WORK EXPERIENCE

July 1972 - Aug. 1978:	Instructor, Mechanical Design Department, MTC.
Aug. 1978 - Jan. 1982:	M.Sc. & Ph.D. Scholar in France.
Jan. 1982 - June 1986:	Assistant Professor, Mechanical Design Depart., MTC.
June 1986 - May 1992:	Associate Professor, Mechanical Design Depart., MTC.
May 1992 - Dec. 1994:	Professor, Mechanical Design Department, MTC.
Dec. 1994 - Dec. 1996:	Head of Mechanical Design Department, MTC.
Dec. 1996 - June 1998:	Head of Technical Research and Development Branch, 2 nd . Field Army. Retired from Military service.
Sept. 1998 – Oct. 1999:	Professor, Mechanical Design Department, MTC.
Sept. 1998–Dec. 2004:	Professor, Head of Scientific council of Mechanical Design & Production Department, MTC.
Feb. 2005 – Now:	Professor, Manufacturing Engineering & Production Department, Modern Academy for Engineering & Technology.

ACTIVITIES:

- 1- Research and development of military mechanical equipment.
- 2- Development of machine design department, MTC from 1972 until now.
- 3- Planning and teaching the following courses:
 - a. Computer Aided Design.
 - b. Computer Applications (MATLAB & Pro/Eng)
 - c. Industrial Measurements.
 - d. Machine design projects.

- e. Design of machine elements.
 - f. Machine and construction drawing.
 - g. Engineering graphics.
- 4- Planning and teaching the following graduate courses:
 - a. Advanced machine design.
 - b. Advanced Industrial Measurements.
 - c. Tribology.
 - d. Experimental Design and analysis.
- 5- Visiting Professor to the faculty of engineering; Zagazig University, teaching engineering graphics, design of machine elements, Industrial measurements, Conclusion projects, and tribology.
- 6- Visiting Professor to the faculty of engineering, Helwan University, teaching engineering graphics, design of machine elements, Conclusion projects, and tribology.
- 7- Testing and technical committee of “100% Egyptian cars” project.
- 8- Research and development of naval military equipment:
 - Deep Diving Testing of a submarine.
 - Dynamic Testing of the strut carrying a hydrodynamic sliding bearing of the main engine’s shaft.
- 9- Design and implementation of Siwa's water bottling lines.
- 10- Design and construction of an anechoic room in MTC.
- 11- Design and construction of a data acquisition laboratory in MTC.

POST GRADUATE ACTIVITIES:

Member of examination board and jury for Master of Science and PhD examination in the faculties of engineering of Ain-Shams, Zagazig, Al-Azhar and Helwan Universities, the Military Technical College.

CURRENT POSITION:

Professor, Manufacturing Engineering & Production Technology Department, Modern Academy for Engineering & Technology in Maadi, Cairo, Egypt.

LECTURED COURSES:

M589, M472, M474 , M473, M371, M310a, M251, M253, M150, M150, MNF411, MNF 472, MNF 312, MNF325, MNF 216, MNF 214, MNF101.

AUTHORED TEXTBOOKS:

- 1- Tribological Technology - Vol. II, Proceedings of the NATO advanced Study Institute on Tribological Technology, Maratea, Italy, 1981, MartinusNijhoff Publishers.
- 2- Measurements and Calibration, MTC, 1983, Re-edited 1999.
- 3- Tribology I - Lubrication, MTC, 1984, Re-edited 1995.
- 4- Machine Tool Design, Zagazig University, 1988.
- 5- Engineering Measurements and Calibration - short course - Military Academy, 1988.
- 6- Machine Drawing, Zagazig University, 1990.
- 7- Maintenance and Repair essays in Nasr Automobiles magazines.

- 8- Machine and Construction Drawing (three parts), MTC, Cairo, 1995.
- 9- Machine Elements (two parts), MTC, Cairo, 1995.
- 10- Engineering Drawing, MTC, Cairo, 1996.
- 11- Exercises on Engineering Drawing, MTC, Cairo, 1996.
- 12- Industrial Drawing, (in Arabic), Technical Institute of developed Industries, Cairo, 1998.
- 13- Machine construction, (in Arabic), Technical Institute of developed Industries, Cairo, 1999.
- 14- Technical Writing of researches, (in Arabic), Labor University, Cairo, 1999.
- 15- Sensors & Measuring Systems, (in Arabic), Technical Institute of developed Industries, Cairo, 1999.
- 16- Technical Measurements, MTC, Cairo, 2000 - Re-edited , Modern Academy for Engineering & Technology, 2005
- 17- Workshop Practice, MTC, Cairo, 2004.
- 19- Machine Design (2 Parts), Modern Academy for Engineering & Technology, 2006.
- 20- Computer Applications, MatLab& Pro/Eng, Premium, Modern Academy for Engineering & Technology, 2006.
- 21- Computer Aided Design, Modern Academy for Engineering & Technology, 2006.
- 22- Technical Report Writing, Modern Academy for Engineering & Technology, 2006.
- 23- Machine Tool Design, Modern Academy for Engineering & Technology, 2008.
- 24- Engineering Metrology, Modern Academy for Engineering & Technology, 2013.

NO OF PUBLISHED PAPERS:

No of Published Papers		Supervised Thesis		
Last 5 years	Total	MSc	PhD	Post-Graduate Diploma
2	36	19	6	2

PUBLISHED PAPERS

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

- 1 2013 N.GadAllah, S. Khairy, M. K. Shoukry and M.F. Abd El-Samie "Computer Aided Reverse Engineering of Machine Parts", 15th ASAT International Conf., MTC, Cairo, May, 2013.
- 2 2011 Nabil A. Gadallah, Raafat M. Gadelrab, Yasser E. Elshaer, Mohamed E. Abokhalaf, "Theoretical study of fracture toughness of ceramic/polymer laminated composites using cohesive zone simulations." ", 11th. ASAT International Conf., MTC, Cairo, May, 2011.
- 3 2004 Gadallah, N., Shokry, M.K., Afifi A. and Abdel-Alim, I., "Computer Aided Reverse Engineering Of Spur Gear", 11th. AMME International Conf., MTC, Cairo, Nov., 2004.
- 4 2002 Sabry T.A., Gadallah N., and Vaughan J.G., "Investigation of Fatigue Stiffness and Damage Index of Unidirectional Pultruded GFRP Composites", 10th. AMME International Conf., MTC, Cairo, May, 2002.
- 5 2001 Gadallah N.A., Moussa M.M. and Bahgat A.M., "Performance Improvement of Automotive Brake Lining Materials", 9th. ASAT International Conf., MTC, Cairo, May, 2001.
- 6 2000 M.M. Sobeih, A.M Kohail, Nabil Gadallah and R. Taher, "Effect of Some Selected Parameters of Wire EDM on Accuracy, Metal Removal Rate and Surface Roughness of Machined Tool Steel", 9th. AMME International Conf., MTC, Cairo, May, 2000.
- 7 2000 Tarek Abdel-Badia, Hesham Senbel and Nabil Gadallah, "Effect of Electrochemical Machining Parameters on Wear Resistance and Friction Coefficient of Machined Steel Surfaces", 9th. AMME International Conf., MTC, Cairo, May, 2000.
- 8 1996 S.Mahrous, S.Oraby, N.Gadallah and M.Abdulmoneim, "Theoretical Aspects in Dredging and their Verifications", Eng. Research Bulletin, Univ. of Helwan, Fac. Of Eng. & Tech., Vol. 50, Nov., 1996.
- 9 1996 N.S.M. El-Tayeb and N.A. Gadallah, "Friction and Wear of a Unidirectional Oriented GFRE Composite as Influenced by Various Counterface Materials", 3rd. AMME International Conf., MTC, Cairo, May, 1996.
- 10 1995 A.Sayed, N.Gadallah, I.Saleh, M.G.Rabie and H.Hanna, "Wear Analysis in Directional Control Valves", 6th. ASAT Conf., MTC, Cairo, May, 1995.
- 11 1994 E.Imam, N.Gadallah and H.Mahgoup, "Dynamic Analysis of Earth Moving Mechanical Equipment", Eng. Research Bulletin, Univ. of Helwan, Fac. of Eng. & Tech., Vol. 3, June, 1994.
- 12 1994 A.Sayed, N.Gadallah, I.Saleh, M.G.Rabie and H.Hanna, "Experimental Investigation of Effect of Wear on the Performance of Hydraulic Directional Control Valves", 6th. AMME Conf., MTC, Cairo, May, 1994.
- 13 1994 G.Abdo, M.Sallam and N.Gadallah, "Wear Characteristics of Porous Sintered Steels", 6th. AMME Conf., MTC, Cairo, May, 1994.
- 14 1993 S.Oraby, S.Mahrous, M.Abdulmoneim and N.Gadallah, "A Comparison Between Two Grades of Dredging Teeth", Eng. Research Bulletin, Univ. of Helwan, Fac. of Eng. & Tech., Vol. 4, Aug., 1993.
- 15 1993 G.Abdo, M.Sallam, N.Gadallah and M.Negm, "Effect of Brazing Alloys on Mechanical and Tribological Behavior of Ni-Mo Sintered Steel", 5th. ASAT Conf., MTC, Cairo, May, 1993.
- 16 1993 M.G.Rabie, M.Awad, E.Imam and N.Gadallah, "Experimental and Theoretical Investigation of the Transient Response of the Hydraulic Valve Controlled Actuators", Alexandria Eng. Journal, Vol. 32, No.1, Jan., 1993.
- 17 1993 G.Abdo, M.Sallam and N.Gadallah, "Effect of Compacting and Sintering Parameters on Mechanical Properties and Wear Resistance of Sintered Steels", Eng. Research Bulletin, Univ. of Helwan, Fac. of Eng. & Tech., Jan., 1993.

- 18 1992 G.Abdo, N.Gadallah, M.Sallam and M.Negm, "Mechanical and Wear Characteristics of Ni-Mo-Sintered Steels", 5th. AME Conf., MTC, Cairo, May, 1992.
- 19 1991 N.Gadallah and M.Tawfik, "Convex Programming Model in Coated Contact Problems", Tribology Conf., Pudaabest, Hungary, Nov., 1991.
- 20 1991 N.Gadallah, S.Kossa, E.Gad, A.Houssini and H.Hanna, "Experimental Investigation Characteristics of Tapered Roller Bearings", 4th. ASAT Conf., MTC, Cairo, May, 1991.
- 21 1991 N.Gadallah, "Regimes of Lubrication of the Rib-Roller End Contact of Tapered Roller Bearing", Eng. Research Bulletin, Univ. of Helwan, Fac. of Eng. & Tech., April, 1991.
- 22 1990 N.Gadallah and S.Haddad, "Deviations Between the Actual and Theoretical Loading of Helical Gears", PEDD 3rd. Int. Conf. on Prod. Eng. and Design for Development, Ain Shams University, Cairo, EGYPT, Dec., 27-29, 1990.
- 23 1989 N.Gadallah, G.Abdo, F.Shehata and H.Hanna, "Wear resistance of Al-Si Alloys on Cast Iron ", 3rd. ASAT Conf., MTC, Cairo, April, 1989.
- 24 1989 Sh.Abdelaziz and N.Gadallah, "Effect of Enclosure on Noise of Gears of Circular-Arc Tooth Profile", ASME 5th. Int. Power Transmission and Gearing Conf., USA, April, 1989.
- 25 1988 A.Elsanabary and N.Gadallah, "Contribution to the Solid Lubrication of Sliding Bearings", Proc. of the 3rd. Applied Mechanical Engineering (AME) Conference, MTC, Cairo, EGYPT, April 1988, pp. 141-150.
- 26 1987 N.Gadallah and M.Tawfik, "Adapting the Hamrock and Dowson's Film Thickness Equation to the Elliptical Contacts Aligned in the Rolling Direction", Egypt. Journal of Applied Science, 2nd. Issue, June, 1987.
- 27 1987 S.Haddad, N.Gadallah and H.Salem, "Deformation of a Pair of Helical Gear Teeth", 2nd. ASAT Conf., MTC, Cairo, April, 1987.
- 28 1986 N.Gadallah, "Non-Newtonian Shear Behavior in an EHD Point Contact", 6th. Int. Conf. on Mech. Power Engineering, Cairo, Sept., 1986.
- 29 1986 Sh.Abdelaziz and N.Gadallah, "Gear noise Measuring Technique", 2nd. AME Conf., MTC, Cairo, May, 1986.
- 30 1986 Sh.Elkindy, A.Elsanabary and N.Gadallah, "Photo elastic Analysis of Dry Contact Problem Under Combined Loading", Proc. of the 2nd. Applied Mechanical Engineering (AME) Conference, MTC, Cairo, EGYPT, May 1986, pp. 93-101.
- 31 1984 N.Gadallah and G.Dalmaz, "Hydrodynamic Lubrication of Rib-Roller End Contact of a Tapered Roller Bearing", ASME, Journal of Tribology, July, 1984.
- 32 1983 Y.K.Younes, N.Gadallah and N.Ashour, "A Direct Technique For Journal Bearing Analysis", 1st. AME Conference, MTC, Cairo, May, 1983.
- 33 1983 Y.K.Younes and N.Gadallah, "Computer Simulation of Kopp Traction Drive Employing EHD Lubrication", 4th. Int. Seminar on Development in Fuels, Lubricants, Additives and Energy Conservation, Misr Petroleum Research Center, Cairo, March, 1983.
- 34 1983 N.Gadallah and Y.K.Younes, "A Numerical Solution of The Hydrodynamic Point Contact In Tapered Roller Bearings", 4th. Int. Seminar on Development in Fuels, Lubricants, Additives and Energy Conservation, Misr Petroleum Research Center, Cairo, March, 1983.
- 35 1982 G.Dalmaz and N.Gadallah, "Epaisseur du Film et Force de Frottement en Regime EHD dans le Contact Bille-Chemin de Bagues d'un Roulement", AGARD, No. 323, Paper No. 1, May-June, 1982.
- 36 1981 Tribological Technology - Vol. II, Proceedings of the NATO advanced Study Institute on Tribological Technology, Maratea, Italy, 1981, MartinusNijhoff Publishers

