

1- CURRICULUM VITAE

Osama M Dawood

Personal Information:

Name: Osama Monir Dawood.
Date of Birth: 16/2/1946.
Address: 5 kaled Eben El Walyed St. - Mashaal - El Harrm St. - Giza -
Egypt
Position: Prof.
Tel. No.: 0202 –3854901
Mobile No.:0127091090
Email address: OsamaDawood@Yahoo.com.

Education:

Degree	Date/Year	Place
B.Sc. degree in Mechanical Engineering (Production)	1969.	Port Said High Industrial Institute.
M.Sc. degree in Production	1980	Faculty of Eng. and Tech., University of Helwan.
Ph.D. degree) in Production	1986	Faculty of Eng. and Tech., University of Helwan, Channel system with Johns Hopkins University, Baltimore, Maryland, USA.

Work Experience:

- 1-Instructor at Mataria High Industrial Institute Aug.1969 to dec.1975.
- 2-Instructor at Prod. Eng. Dept. Faculty of Engineering, University of Helwan,
from Jan. 1976 to Jan. 1980.
- 3-Ass. Lecturer Jan. 1980 to Sept . 1986.
- 4-Ass. Prof., Sept. 1986 to June 1992.
- 5-Associate Prof. June 1992.
- 6- Prof. August 2002

Professional Experience

- 1-Thought the subjects; Mech. Drawing, Machine Tool Design, Metal

- Machining, and Production Technology, from 1969 to 1986.
- 2-Teaching the subjects; Measurement systems, Production Technology, Metal Machining, and Welding of Metals, Composite materials.
- 3-Teaching the subjects; Design of Experiments, Measurements, Jigs & Fixtures - Computer Applications (Postgraduate).
- 4- Design and Teaching the programs in subjects titled:
- i) “Ultrasonic Testing of Engineering Materials and Components”.
 - ii) “Use and Calibration of Measuring Equipment”.
 - iii) “Non-conventional Welding Techniques”.

Technical Experiences

- 1-Practical training on the applications of ultrasonic techniques at the National Institute for Standards, Cairo, from Dec. 1981 to May 1982.
- 2-Engineering applications of ultrasonic techniques for:
- *Detection of fatigue crack formation.
 - *Inspection of the explosive welded Joints.
 - *Detection of delamination in Carbon Fibre Reinforced Plastics CFRP (Glasgow 1992-1993).
- 3- Computer aided waveform analysis for:
- * Characterization of Steel & Aluminium alloys 6063.
 - * Characterization of explosively compacted particulate composites.
 - *Characterization of material’s permanent deformation by ultrasonic technique.
- 4-Member of research teamwork from Helwan University, in project Titled “*Use of Explosive Energy in Engineering Manufacturing Processes*”, Grant No. 842015 by the Foreign Relation Coordination Unit of the Supreme Council of Universities (FRCU), from April 1987 to Dec. 1988.
- 5-Member of postdoctoral research fellow, University of Strathclyde, Mech. Eng. Dept. (Glasgow, 1st October 1992- March 1993).
- 6-Member of teamwork from Helwan University, in a project of “*Engineering Education Development Project*”, EEDP. Grant No. HLW 302 (1995-1997).
- 7-Member of teamwork from Helwan University, in a project of “Design and Manufacturing Spare Parts”, Centre of Search Studies of

Technological Development SSTD- Helwan University (July 2000-till now).

- 8- An expert from 2000 till now for the *Egyptian industry of spare parts project with Eastern Company at Giza*.
- 9- Chare for make an engineering design for the exhaust tube, with *El-Zaharna Company* at 6-th of October City.
- 10- Chare for checking up for the working drawing of parts for *Prima Elios for Electrical Industry Company*, 6-th October City.
- 11-Member of teamwork from Helwan University, in RDI project of *“An Innovative Tracking System for Solar Energy Application: a Collaboration with Industrial Company ”*, 2008-2009.
- 12-Member of teamwork from Helwan University, in IMC project of *“Production Lines Automation of Carton Products Manufacturing”*, (Carton Bases for dry goods transportation) PACKTEC Company, Badr City and Centre of Search Studies of Technological Development SSTD - Helwan University and IMC (2009-2011).
- 13- Member of teamwork from Helwan University, in RDI project of *“SUNWATER – Solarthermic Roof for Water Desalination”*, Grant Application Form EU-Egypt Innovation Fund – Grant Scheme1Budget line: BGUE-B2006-19.080201-C1-AIDC0Reference: Europe Aid/127781/M/ACT/EG, Aug 2009-2011.

PUBLICATIONS:

Papers already published

- 1-M.S.M.Riad, and O.M.Dawood, “Variables Affecting Thread Machining”, Design & Prod. Conf., Cairo University, Dec. 1979.
- 2-M.R.Sawilam, And O.M.Dawood, “The Influence of the Tool Contact Length and the Number of Cuts on the Cutting Power In Thread Cutting” Zagazig Production Engineering Conf. April 1981.
- 3-O.M.Dawood, M.Mongy, and A.A.Hegazy, “Ultrasonic Early Detection Of Fatigue Crack Initiation In Steel”, Solid State Conf. El-Minia University, Feb, 1985.
- 4-A.A.Hegazy, O.M.Dawood, M.Mongy and H.Abdel-Kader, ”Determination Of the Fatigue Life Ratio Based on the Two Stage PSN Diagram“, 3rd Inter. Conf. PEDAC, Alexandria University, Dec. 1986.
- 5-H.Abdel-Kader, A.Hegazy And O.M Dawood, “Construction And Testing the Performance Of an Explosive Forming Facility”, Jr. Of Eng. Research, Fac. Of Eng. Mataria, Cairo, 1989.
- 6-A.A.Hegazy, A.A.Hegazy, H.Abdel-Kader and O.M.Dawood, “Experimental Verification of the Theory of approximate Model For

- Underwater Explosive Sheet Metal Forming”, Int. Conf. HERF, Sept. 1989, Yugoslavia.
- 7-M.I.Ghobrial, O.M.Dawood and A.A.Hegazy, “Effect of the Burnishing Process Upon Some Dynamic And Static Material Properties”, The 3rd Ain Shams University Conf. 1990.
- 8-O.M.Dawood, “Ultrasonic Testing Of Explosive Welded Plates”, Egyptian Jr. Of Solids, The Egyptian Society Of Solid State, Vol.14, Jan. 1991.
- 9-O.M.Dawood, M.I.Ghobrial, “An Investigation Of The Mean Fatigue Life For Burnishing Specimens Using The Three Parameter Weibull Distribution”, Jr. Of Eng. Research, Fac. Of Eng. Mataria, Cairo, 1991.
- 10 O.M.Dawood, H.Abdel-Kader, “Effect Of Charge Weight And Stand Off Distance On The Profile Of Explosive Formed Dished Ends”, Jr. Of Eng. Research, Fac. Of Eng. Mataria, Cairo, 1991.
- 11-O.M.Dawood And A.F.Barakat, “Optimization Of Machining Conditions on Numerically Controlled Machines”, Jr. Of Eng. Research, Fac. Of Eng Mataria, Cairo, Vol. 3, July,1993.
- 12-O.M.Dawood, “The Validity Of Ultrasonic Dry Coupling Technique To Assess the Delamination In Composite Material”, Egyptian Jr. Of Solids, The Egyptian Society Of Solid State, Vol.16, 1993.
- 13-O.M.Dawood And A.F.Barakat, “Machining Conditions For Maximum Profit on Numerically Controlled Machines”, Jr. Of Eng. Research, Fac. Of Eng. Mataria, Cairo, Vol. 4, 1994.
- 14-H.Abdel-Kader and O.M.Dawood, “NDE Of Mechanical Properties Of Al Alloy Casting Using Ultrasonic Wave Analysis”, Alexandria Eng. Jr. Vol. 36 No. 1 January 1997.
- 15-O.M.Dawood, “Transmission Coefficient Of Ultrasonic Wave at Second Interface Of the Oblique Incidence”, Egyptian Jr. Of Solids, The Egyptian Society Of Solid State Vol.20, No.(2), 1997.
- 16-O.M.Dawood, H.Abdel-Kader and S.S.Habeeb, “Correlation Between Ultrasonic Parameters and Mechanical Properties of Aluminium Alloy 6063” 5th Int. Conf. Ain Shams Univ., 1998.
- 17-H.Abdel-Kader, O.M.Dawood, M.T.Mahmoud and S.S.Habeeb, “Using Ultrasonic Wave Analysis in Detecting The Characteristics of Al-Mg-Si Alloy 6063”. Egyptian Jr. Of Solids, The Egyptian Society Of Solid State Vol. 21/2, 1998.
- 18- O.M.Dawood and H.Abdel-Kader, “Ultrasonic Measurements As Microstructural Dependent of Homogenized Aluminium Alloy 6063” Egyptian Jr. Of Solids The Egyptian Society Of Solid State Vol.22/2, 1999.
- 19-A.Abousree Hegazy and O.M.Dawood, “Evaluation Of Properties Of Explosively Compacted Copper-Graphite Composites Using Ultrasonic Technique” 7th Cairo Univ. Int. Conf. (MDP-7), 2000.

- 20- A.M. Abdelhay and O.M.Dawood, "Characterization of Material's Permanent Deformation By Ultrasonic Technique" 7th Alexandria Univ. Int. Conf. On Prod. Eng., Des. and Cont.,. PEDAC'2001.
- 21- O.M.Dawood, A.M. Abdelhay, A. El-zomor and A.D.El-Lethy, "Evaluation of Microstructure Characteristics of Plain Carbon Steel Using Ultrasonic Wave Parameters" 1st Symposium on Heat Treatment of Metals & Alloys, Tabbin Nov. 3-5 ,2001.
- 22- M.I. Etman, O.M.Dawood and A.M. Abdelhay, "Artificial Neural Networks As an Alternative for Evaluating Parameters of Ultrasonic Response to Metal Permanent Deformation" Sixth International Conference on Production Engineering and Design for Development, PEDD6, Ain Shams University, Cairo, Egypt, 12-14 Feb., (2002).
- 23- M.I. Etman, A.M. Abdelhay and O.M.Dawood, "Evaluating Ultrasonic Response to Surface Roughness Finish Parameters Using Back propagation Neural Networks" Sixth International Conference on Production Engineering and Design for Development, PEDD7, 7th Assuite University, Assuite, Egypt, 12-14 Dismember, (2002).

Supervised a Post Graduate research works titled:

- 1- "Use of Ultrasonic Wave Analysis For Determination Of The Characteristics Of An Al-Mg-Si Alloy (6063)", Eng. Sameh Habib, Prod. Eng. Dept. Faculty Of Eng. Helwan University, (1995-1998).
- 2- "Experimental Study of Metal Surfacing Parameters", Eng. Ramdan M. Ramadan, Prod. Eng. Dept. Faculty Of Eng. Helwan University, (1999).
- 3- "Using Ultrasonic Inspection to Characterize Electrical Arc Welding Defects", Eng. Ahmed Mazloom, Prod. Eng. Dept. Faculty of Eng. Helwan University (2000).
- 4- "Investigation of Factors Influencing High Frequency Resistance Welding", Eng. Said Ahmed El-Sayed, Prod. Eng. Dept. Faculty of Eng. Helwan University (2001).
- 5- "Design of An In-Processes Workpiece Measuring System", Eng. Salah El-din Yehia Mohamed, Prod. Eng. Dept. Faculty of Eng. Helwan University, (2001). (Cancelled)
- 6- "Improving the Dimensional Accuracy of CNC Machined Part", Eng. Amal A. Monem Mohamed, Prod. Eng. Dept. Faculty of Eng. Helwan University, (2002). (Cancelled)
- 7- "Fatigue Life of Born Steel", Eng. Arfa, Prod. Eng. Dept. Faculty of Eng. Helwan University, (2004).
- 8- "Influence of Heat Treatment on Deformation Rate of a Steel Alloy" Eng Rasha Samir, (2006).

- 9- "Biaxial Stress Measurement using NDE Ultrasonic Technique"
Eng. Mohamed Mostafa. (2007).
- 10- "A Study of Mechanical Properties and Microstructure of HSLA Steel Welded Joints", Eng. Hosam Abdelmonem ElRakayby, (2008).
- 11- " Nanocomposite Surface Coating to improve tribological properties of machining parts ", Eng Hebaa (2009).
- 12- " Ultrasonic Inspection of Deep Drawn Parts using Time-Frequency Analysis and Soft-Computing" Eng. Dalia Mahdy, 2010.
- 13- Enhancement of the Impact Resistance of Polymer Composite Material using Nanotechnology", Eng Ahmed Hegazy, 2010.
- 14- Automation of Solar Tracking System to Maximize Energy".
Mohame Morsy, 2010.

Field of Interest

Engineering Material – Material Testing – Metal welding - Design and Manufacturing Spare Parts.

.....