**CURRICULUM VITAE**

***Dr. Mamdouh Ibrahim Elamy Morsy***

***Production Engineering and Mechanical Design Dept.,***

***Faculty of Engineering,***

***Minoufiya University, Shebin El-Kom, Minoufiya, Egypt***

***Personal Information .***

**Date of Birth: 04/01/1976**

** Nationality: Egyptian**

** Marital Status: Married, (3 children)**

** Religion: Muslim**

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***Current Occupation .***

****

**** Lecturer in Production Engineering & Mechanical Design Dept., Faculty of Engineering, Minoufiya University

***Education and Academic Degrees .***

Degree: Ph.D. in Mechanical Design and Applied Mechanics (Dynamics of Machines)

 Year: June (2014)

 Faculty: Faculty of Engineering

 University: Minoufiya University

 Thesis Title: "Dynamic Analysis of a Rotating Composite Shaft".

Degree: M.Sc. in Mechanical Design and Applied Mechanics

 Year: July (2007)

 Faculty: Faculty of Engineering

 University: Minoufiya University

 Thesis Title: "Dynamic Analysis of an Adhesive Bonded Joint for Composite Structures".

Degree: B.Sc. in Production Engineering and Mechanical Design

 Year: May (2001)

 Faculty: Faculty of Engineering

 University: Minoufiya University

***Language & Computer Skills*** .

English: very good (Reading/writing/speaking).

 ICDL Certificate.

 Programming Languages: FORTRAN and MATLAB.

 Finite Element Software’s: ANSYS and MATLAB.

 ***Teaching and Research Topics*** .

Applied Mechanics

 Mechatronics

 Theory of Machines

 Dynamics of Machines

 Mechanical Design

 Machine Tool Design

 Engineering Drawing

 Mechanical Vibration

 Material Handling System Design

 Automatic Control

 Production Engineering

 Kinematics of Mechanisms and Robotics

* Facilities Planning
* Human Factor Engineering
* Engineering Mechanics
* Maintenance and replacement policies
* Materials Engineering
* Modeling and Simulation of Dynamic Systems
* Industrial Quality Control
* Control and Industrial Automation.
* Probabilities and Statistics.

 ***Recent Publications .***

1. Hamada, A. A., Ghoneam, S. M. and ***EL-Elamy, M. I*.**, “Dynamic Analysis of an Adhesive Bonded Joint for Composite Structures”, 12th International Conference on APPLIED MECHANICS & MECHANICAL ENGINEERING, Military Technical College, May 29-31, ***2007***.

2. Ghoneam, S. M., Hamada, A. A. and ***EL-Elamy, M. I.***, “Dynamic Response of an Adhesive Bonded Joint for Composite Structure”, 13th International Conference on APPLIED MECHANICS & MECHANICAL ENGINEERING, Military Technical College, May 27-29, **2008**.

3. Ghoneam, S. M., Hamada, A. A. and ***EL-Elamy, M. I*.**, " Experimental and Analytical Investigations of the Dynamic Analysis of Adhesively Bonded Joints for Composite Structures" The 4th International Conference Mechatronic Systems and Materials, MSM **2008**, Bialystok, Poland, July, 14-17, **2008**.

4. S. M. Ghoneam, A. A. Hamada and ***M. I. EL-Elamy****,*" Dynamic Analysis of Cracked Composite Shafts", 13th Conference on Fracture Mechanics - ***Opole, POLAND***, 05 – 07 September **2011**.

5. S. M. Ghoneam, A. A. Hamada and ***M. I. EL-Elamy***," Dynamic Analysis of a Rotating Composite Shaft", 14th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY ASAT 14 – ***Military Technical College***, Cairo, EGYPT, May 24 – 26, **2011**.

6. S. M. Ghoneam, A. A. Hamada and ***M. I. EL-Elamy***, "The Effect of Stacking Sequence and Coupling Mechanisms on Eigen-Nature of Composite Shafts", 15th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY ASAT 15 – ***Military Technical College***, Cairo, EGYPT, May 28 – 30, **2013**.

7. K. M. Khader, ***M. I. EL-Elamy***, "Using Composite Materials for Improving Wind Turbine Performance", 6th International Conference on Trends in Mechanical and Industrial Engineering (ICTMIE'2015), ***Sept. 13-14, 2015*** Dubai (UAE).

8. Y. Rihan, S. Ayyad, and ***M. I. Elamy***, "A Study on the Residual Stresses in Resistance Spot Welding", *I-manager’s Journal on Material Science, Vol. 3* l *No. 2* l *July - September* ***2015***

9. M. S. EL-Wazerya, ***M. I. Elamy***, and S. H. Zoalfakar, "Experimental Investigation on the Mechanical Behavior of Glass Fiber Reinforced Polyester Resin Composite" *The International Conference of Engineering Sciences& Applications, Aswan, Egypt, January, 28-31,* ***2016.***

10.A. M. Easaand ***M. I. Elamy*,** "Influence of Drilling Parameters and Volume Fraction Ratios on Hole Quality of (GFRP) Composites", *International Journal of Advanced Engineering and Global Technology*, *Vol-04, Issue-03, 1904 – 1911, May,* ***2016*.**

11.A. M. Easa, ***M. I. Elamy*** and A. S. Esia**,** "Analysis of Surface Integrity in Drilling of GFRP Composite When Using Two Types of Cutting Tools and Different Volume Fraction Ratios ", *International Journal of Advanced Engineering and Global Technology*, *Vol-04, Issue-04, 2080 – 2087, August,* ***2016*.**

12**.** A. M. Easa, ***M. I. Elamy*** and A. S. Esia,**,** " Analyzing the Effect of Machining Parameters and Fiber Orientation on the Surface Roughness during Drilling of (GFRP) Composites", *International Journal of Advanced Engineering and Global Technology*, *Vol-02, Issue-05, 1523-1531, March,* ***2017*.**

13. N. M. Mohamed, M. S. EL-Wazery, ***M. I. EL-Elamy***, S. H. Zoalfakar, " Mechanical and Dynamic Properties of Hybrid Composite laminates", *International Journal of Advanced Engineering and Global Technology*, *Vol-05, Issue-03, 1703-1725, May,* ***2017*.**

14. K. M. Khader, ***M. I. EL-Elamy***, O. A. Nada, " Multi-criteria Selection and Improvement of Effective Design for Generating Power from Sea Waves", **ICEEP 2018**: 20th International Conference on Environmental Engineering and Protection, January, 22-23, ***2018*** at Dubai, (UAE).

15. K. M. Khader, ***M. I. EL-Elamy***, " Power and Wear Reduction Using Composite Links of Crank-Rocker Mechanism with Optimum Transmission Angle", **ICEEP 2018**: 20th International Conference on Environmental Engineering and Protection, January, 22-23, ***2018*** at Dubai, (UAE).

16. O S, Hussiena, ***M I, Elamy***, " Optimal Placement of Dampers on Multistorey Frames Using Dynamic Analysis ", Strength of materials, Vol. 3, 158-168, **2020**.

17. K. M. Khader, Shehab A. Mansour, Ibrahim M. El Fahham and ***Mamdoh I. Elimy*** , "Dynamic Performance Enhancement of Vertical Wind Turbine Using Composite Blades Reinforced by Zinc-Oxide Nanoparticles", MANSOURA ENGINEERING JOURNAL, (MEJ), *Vol-45, Issue-03, 39-49,* ***2020*.**

18. M. Gamila, W.M. Faroukb and ***Mamdouh I. Elamy*** , "Effect of Friction Stir Processing Parameters on the Mechanical and Dynamic Responses of AA5052-H32", ENGINEERING RESEARCH JOURNAL (ERJ), *Vol-51, Issue-02, 188-199,* ***2022*.**

19***. Mamdouh I. Elamy*** , "Dynamic Analysis of Rotating Continuous Drive Friction Welding Joints of Al alloy (6061AA)", *ERJ Engineering Research Journal Faculty of Engineering Menoufia University*,Vol. 46, No. 1, pp***.*** 43-53, January ***2023*.**

***20. Mamdouh I. Elamy***, "Improving the Dynamic Performance of the Crank-Rocker Mechanism Using Composite Links", *ERJ Engineering Research Journal Faculty of Engineering Menoufia University*,Vol. 46, No. 4, pp***.*** 471-484, October ***2023*.**

**21.** Mohamed Fterich, **Mamdouh Ibrahim Elamy,** Ezzeddine Touti, and Hatem Bentaher,"Experimental and numerical study of tomatoes drying kinetics using solar dryer equipped with PVT air collector", *Engineering Science and Technology, an International Journal*, Vol. 47, 101524, ***2023***.

**22.** Norah A. M. Alsaif, Hanan Al‑Ghamdi, Z. Y. Khattari, M. S. Shams, R. A. Elsad, M. S. Sadeq, Adel M. El‑Refaey, Y. S. Rammah, and **Mamdouh I. Elamy,** "Experimental and simulation investigation of the effects of Er3+ ions on the physico‑mechanical, optical, mechanical, and radiation‑protective characteristics of B2O3‑CaO‑Bi2O3 glasses", *Journal of the Australian Ceramic Society*, Accepted: 1 August ***2023***

**23.**"Mechanical, electrical properties and gamma-rays buildup factors of CaO-Li2O-B2O3-As2O3 glasses: Significant role of As2O3", *Journal: Radiation Physics and Chemistry*, Under publication (Final acceptance in journal).

**24.** "Indirect Effect of Elevated Temperature on Radiation Shielding Competence through Modulations of Crystals' Intrinsic Tetrahedral Parameters: A Case Study of Berlinite, SiO2-type AlPO4", Journal: Radiation Physics and Chemistry, Under publication (Final acceptance in journal).