

CURRICULUM VITÆ

For Dr. Samy Zein El-Abden Ibrahiem

1- Personal data

- Name : Dr. Samy Zein El-Abden Ibrahiem
- Religion : Muslim.
- Nationality: Egyptian
- Marital Status: Married with three children
- Phone: 01224884895 – 01001933967.
- Current position: Assistant Professor, Department of Production and Engineering Design, Faculty of Engineering, Minia University.

2. Degrees and Positions:

- **B.Sc. in Production Engineering, Minia University, 1989.**
- **M.Sc. in Production Engineering - Minia University – 1993.**
- **Ph.D. in Production Engineering, Minia University, 1999 (Scientific Channel, Germany).**
- **Assistant Professor - Minia University 2008.**
- **Head of Production and Design Engineering Department from 2012-2013.**
- **Head of Production and Design Engineering Department for another period from 2016-2017.**

3- Scientific Theses:

- **Title of PhD Thesis:**

"Relations between material flow, required energy and product quality in the flow turning process"

- **Title of M.Sc. Thesis:**
"Factors influencing in shear flow spinning and its effects on the production of cylindrical thin cups"
- **Undergraduate Project Title:**
"Deep drawing of aluminum using conical tips"

4- Academic Experience:

- **29/4/2008 to date Assistant Professor, Department of Production and Engineering Design, Faculty of Engineering, Minia University.**
- **28/2/1999 Lecturer, Department of Production and Design Engineering, Faculty of Engineering, Minia University.**
- **27/9/1993 Assistant Lecturer, Department of Production and Engineering, Design Faculty of Engineering - Minia University.**
- **19/9/1989 Demonstrator, Department of Production Engineering and Design, Faculty of Engineering, Minia University.**

الأبحاث المنشورة

1. **S.Z.El-Abden, M.N.El-Sheikh, A.A.Mazen, F.F.Abdel-Aziz** "Experimental Study of Tool and Machine parameters in Shear Spinning Process" Presented in 4th the in International Conference on Production Engineering and design for development (PEDD"93) , Cairo, December 27-29, 1993, pp.365-378.
2. **M.N.El-Sheikh, A.A.Mazen, S.Z.El-Abden** "Combined of conventional spinning and ironing for preformed cups" Presented in 4th the in International Conference on Production Engineering and design for development (PEDD"93) , Cairo, December 27-29, 1993, pp.379-390.
3. **S.Z.El-Abden, M.Abdel-Rahman, G.Heerold and M.N.El-Sheikh** "Experimental flow moment and product quality in the flow turning of an aluminum alloy Al-SiW1" Proceeding of 5th International Conference on production Engineering and design for development Cairo, 28-30, 1998, Ain Shams University, pp.183-190.
4. **S.Z.El-Abden, M.Abdel-Rahman, G.Heerold and M.N.El-Sheikh** "Required Energy in the flow turning of metallic cups" Proceeding of 2nd Assuit university International conference. On Mechanical Engineering Advanced Technology for industrial Production, Assuit, Egypt March, 2-4,1999, pp187-195.

5. **S.Z.El-Abden**, M.Abdel-Rahman, and F.A. Mohamed "finishing of non-ferrous internal surfaces using ballizing Technique" Journal of material processing Technology 124(2002)pp144-152.

6. M.Abdel-Rahman, F.A. Mohamed and **S.Z.El-Abden** "Rotary widening of tube ends using a ball Shaped Tool", Sixth International Conference on Production Engineering & Design for Development – PEDD' 6, CAIRO, FEBRAUARY 12-14, 2002, Ain shams University, pp. 968-982.

7. F.A. Mohamed, **S.Z.El-Abden**, and M.Abdel-Rahman, "A Rotary Flange Forming Process on Lathe Using A Ball Shaped", journal of materials process Technology 170, (2005), p. 501-508.

8. M.AbdelRahman, E.A.Mohamed, **S.Z.El-Abden** and M.N.El-Shiekh, "An Investigation of Static and Rotary Double Sided Tube Expansion" 3th Assuit university conference on Mech. Engineering Advanced Tech. for Industrial Production, Assuit, Egypt, Dec. 26 – 28, 2002, pp. 32 – 45.

9. M.AbdelRahman, E.A.Mohamed, **S.Z.El-Abden** and M.N.El-Shiekh "Static and Rotary Inversion of Aluminum Tubes" 3th Assuit university conference on Mech. Engineering Advanced Tech. for Industrial Production, Assuit, Egypt, Dec. 24 – 26, 2002, Vol.1, pp. 23-31.

10. **S.Z.El-Abden** "An Investigation into Convenial Multi-Stage spinning of Aluminum Cups Using Conical Roller", Bulletin of the Faculty of Engineering, Minia University, Vol.25, No.1 January, 2006, pp. 79 – 92.

11. **S.Z.El-Abden** "Rotary Squeezing of threaded Components", Bulletin of the Faculty of Engineering, Minia University, Vol. 26, No.1 January, 2007, pp. 1 – 11.

12. **S.Z.EL-Abden**, Abo El-Wafa, W.M. and El-ShANAWANY M.M." FRICTION AND WEAR OF EPOXY FLOORING FILLED BY RECYCLED POLYMERS" International Journal of Scientific & Engineering Research, Volume 5, Issue 9, September-2014, pp. 116-121,(2014).

13. **S.Z. El-Abden**, and Mohieldeen Abdel-Rahman, "*DEFORMATION LIMITS AND PRODUCT QUALITY IN ROTARY FORMING AND JOINING OF ALUMIUM TUBES*", Journal of Engineering sciences Assiut University Faculty of Engineering, Vol. 45, No. 5 September 2017, pp. 613-626, (2017).

14. Ayman A. Abd-Eltwab, **S.Z. El-Abden**, Kahaled I.E. Ahmed, M.N. El-sheikh and Ragab K..Abdel-Magied "*An investigation into forming internally-spline sleeves by ball spinning*", International journal of mechanical sciences, Vol. 134, October 2017, pp. 399–410, (2017).

15. **Samy Z. El-Abden**, and Mohieldeen Abdel-Rahman "*FORMABILITY IN HOLE EXPANSION OF 2-PLY (BRASS/ALUMINUM) SHEET USING A BALL-SHAPED PUNCH*" Journal of Engineering sciences Assiut University Faculty of Engineering, Vol. 46, No. 6 November 2018, pp. 689-705, (2018).

16. Essam K. Saied, S.Z. El-Abden, Ayman A. Abd-Eltwab, and M. Abdel-Rahman & M.N. El-sheikh "COMBINING CONVENTIONAL SPINNING WITH WALL THICKNESS REDUCTION IN ONE PASS" , International journal of mechanical and production Engineering Research and development, Vol. 9, issue3, jun. 2019, pp. 1429-1436, (2019).

17. Samy Yousef, Mohamed Hamdy, Maksym Tatariants, Simona Tuckute, **Samy Zein El-Abden**, Linas Kliucininkas & Arunas Baltusnikas "*Sustainable industrial technology for recovery of cellulose from banknote production waste and reprocessing into cellulose nanocrystals*" Resources, Conservation & Recycling, Vol. 149, 2019, pp. 510–520, (2019).

18. **El-Abden S.Z.**, "*EFFECT OF SILICA NANOPARTICLES AND MULTIWALL CARBON NANOTUBES DISPERSING LUBRICATING GREASE IN METAL FORMING*", Journal of the Egyptian Society of Tribology, , Vol. 16, No.4, October 2019, pp. 13 - 24 ISSN 2090 - 5882.

19. **El-Abden S.Z.**, "*REDUCING ABRASIVE WEAR OF CARBON STEEL BY PLASTIC DEFORMATION AFTER UPSETTING*", *Journal of the Egyptian Society of Tribology*, Vol. 16, No.4, October 2019, pp. 55 - 64 ISSN 2090 - 5882.

20. Heba K., **El-Abden S.Z**, Mazen A.A. "EFFECT OF EQUAL CHANNEL ANGULAR PRESSING (ECAP) ON MECHANICAL PROPERTIES AND WEAR BEHAVIOR" *Journal of the Egyptian Society of Tribology*, Vol. 16, No.4, October 2019, pp. 55 - 64 ISSN 2090 – 5882.

21. **Samy Zein El-Abden** and Raghda Atef "Finite Element Analysis and Experimental Investigations on Hub Forming in a Sheet by the Hole Expanding Technique" Journal of Engineering sciences Assiut University Faculty of Engineering, Vol.48, No. 1, pp. 44-53, January (2020).

22. **Samy Zein El-Abden** "*TUBE-TO-SHEET JOINTS OF DISSIMILAR MATERIALS USING COMBINED PLASTIC DEFORMATION PROCESS IN SINGLE PASS* " *Journal of Advanced Engineering and Trends (JAET)*, Minia University Faculty of Engineering, Vol. 40, No.1 , January (2021). **Under publication**