

CURRICULUM VITA

Prof. Usama Abdel-Moneim Khashaba,
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PERSONAL DATA:

Date and Place of Birth	May 20, 1962, Egypt
Family Status	Married
Languages	Arabic and English

EDUCATION

Ph.D. Industrial Engineering and Production Dept., Faculty of Eng., Zagazig Univ., Zagazig, Egypt, (1993).
"Some Technological Factors Affecting the Fatigue Strength of FRP Composites"

M.Sc. Mechanical Design and Power Dept., Faculty of Eng., Zagazig Univ., (1989).
"An Investigation of Tool Rigidity and Workpiece Mounting on the Overall vibration Level and Product Accuracy in Turning Processes"

B.Sc. Mechanical Engineering Dept., Faculty of Eng., Zagazig Univ., Zagazig, Egypt, (1985).

POSITIONS AND APPOINTMENTS:

1985-1990: **Teaching assistant**, Mechanical Eng. Dept., Faculty of Eng., Zagazig Univ.

1990-1993: **Lecturer**, Industrial Eng. and Production Dept., Faculty of Eng., Zagazig Univ.

1993-1997: **Assistant Professor**, Industrial Eng. and Production Dept., Faculty of Eng., Zagazig Univ., Zagazig, Egypt.

1997-1999: **Assistant Professor**, Dept. of Mechanical Design and Production Engineering., Faculty of Eng., Zagazig Univ., Zagazig, Egypt.

1999-2004: **Associate Professor**, Dept. of Mechanical Design and Production Engineering., Faculty of Eng., Zagazig Univ., Zagazig, Egypt.

2004-2006: **Professor**, Dept. of Mechanical Design and Production Engineering., Faculty of Eng., Zagazig Univ., Zagazig, Egypt.

2006 to 2010: **Professor**, Mechanical Engineering department, Faculty of Eng., Albaha University, KSA.

2010 to present: **Professor**, Department of Production Engineering & Mechanical Systems Design, King Abdul Aziz University, KSA.

PROJECTS AND GRANTS

1. U.S. – Egypt Joint Board on Scientific and Technological Cooperation, NSF, "*Microcracking and Damage Evaluation by Laser Speckle Shearing Interferometry*", (2000), 3 years, \$50,000

<http://www.fastlane.nsf.gov/servlet/showaward?award=0001581>

2. U.S. – Egypt Joint Board on Scientific and Technological Cooperation, NSF, “*Effects of Machining Parameters on the Strength and Fatigue Behavior of Bolted Joints in GFRP Composites*”, (2002), 3 years, \$54,000.
<https://www.fastlane.nsf.gov/servlet/showaward?award=0210475>
3. U.S. – Egypt Joint Board on Scientific and Technological Cooperation, NSF, “*Nano-reinforcement Effects on Damping Properties of Composite Structures under Thermal and Cryogenic Environments*”, (2007), 3 years, \$60,000.
<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0612066>
4. King Abdulaziz City for Science and Technology, “*Design, Manufacturing, and Analysis of Composite Bolted Joints with Embedded Nano Particles/Fibers*”,(2009), 2 year, SR 1,604,650.
5. King Abdulaziz City for Science and Technology, “*Developing Composite Materials Filled with Nanofillers for Bonded Joints/Repairs in Fiber-Reinforced Polymers*”,(2012), 2 year, SR 864,000
6. King Abdulaziz University, General Program, DSR, “Mechanical Performance of Scarf Adhesive Joints Modified with nanofillers”, Funded project (2017), 1-year, SR 40,000.
7. King Abdulaziz University, General Program, DSR, “Mechanical Performance of Epoxy Modified with Nanofillers under different Environments”, Funded project (2018), 1-year, SR 40,000.
8. King Abdulaziz University, General Program, DSR, “Experimental and numerical investigation of low-velocity impact of composite plates”, Funded project (2018), 1-year, SR 40,000.
9. King Abdulaziz University, Strategic Project “*A new analysis of heat affected zone in drilling process for joining of FRP composite structures*”, Funded project, (2019), 2 year, SR 1,000,000
10. King Abdulaziz City for Science and Technology, “*Development of an innovative Acoustic Emission damage location technique and damage mechanism classification for composite materials*”, Accepted/Funding under process, (2016), 2 year, SR 1,823,922.

VISITING PROFESSOR TO USA UNIVERSITIES

1. Visiting Professor to Northern Illinois University, Dekalb, IL, USA for working on the US-Egypt project entitled: “Microcracking and Damage Evaluation by Laser Speckle Shearing Interferometry”, 2001.
2. Visiting Professor to Northern Illinois University, Dekalb, IL, USA for working on the US-Egypt project entitled: “Microcracking and Damage Evaluation by Laser Speckle Shearing Interferometry”, 2002.
3. Visiting Professor to Alabama Agricultural and Mechanical University, Huntsville, USA for working on the US-Egypt project entitled: “Effect of Machining Parameters on the strength and fatigue behavior of Bolted Joints in GFRP Composites”, 2004.
4. Visiting Professor to Alabama Agricultural and Mechanical University, Huntsville, USA for working on the US-Egypt project entitled: “Effect of Machining Parameters on the strength and fatigue behavior of Bolted Joints in GFRP Composites”, 2006.

REVIEWER:

1. J. Composites Part A, Elsevier.
2. J. Composites Part B, Elsevier.
3. J. Composite structures, Elsevier..
4. J. Materials Science & Engineering A, Elsevier.
5. International Journal of Fatigue, Elsevier.
6. Chinese Journal of Aeronautics, Elsevier.
7. J. Engineering Failure Analysis, Elsevier.
8. J. Composite Materials, Sage Publication.
9. J. Thermoplastic Composite Materials, Sage Publication.
10. J. Precision Engineering and Manufacturing, Springer.
11. Advanced Composites Letters (ACL)
12. External reviewer for faculty promotion of Al-Baha University (KSA) and Tafila Technical University (Jordan).

13. International Conference of MDP-8 Cairo University, Egypt, January 4-6, (2004).
14. Ph.D. theses and M.Sc. theses, Zagazig University
15. Ph.D. thesis, Center for Research, ANNA University Chennai, India.

COURSES TAUGHT

I-Undergraduate Courses

Basic Workshop Processes, Production Technology (I), Production Technology (II), Machine Tool Design, Design of Cutting Tools, Machine Design, Advanced Engineering Materials, Machine Drawing, Technology of Composite Materials, Material Science, Experimental Engineering and Measurement, B.Sc.Projects.

II Graduate Courses

1998-2006: Teaching graduate courses in Faculty of Eng., Zagazig University, in the areas of: Technology of Composite Materials and Design of Cutting Tools.

1993-Present. Supervisor with others on **M.Sc.** and **Ph.D.** researches in the field of manufacturing, testing under uniaxial and multi axial static and fatigue loading, machining and tribology of polymeric-base composite materials.

RESEARCH INTERESTS:

The current research is focused on manufacturing and evaluation the behavior of advanced composite materials, nanocomposites, and nano-hybridized composites with improved structural. Static and fatigue characterization of the composite materials under uniaxial and combined loading and different environmental conditions. Fracture toughness, bolted and adhesive joints, repairs, impact, and machining of composite materials.

PUBLICATIONS

Patents:

1. Saad M Aldousari, Hassan S Hedia, **Usama A Khashaba**, Mostafa A Hamed “Composite epoxy material with embedded silicon carbide and alumina nanoparticles” Patent No: US 10427378 B2, Oct 1, 2019
2. Saad M Aldousari, **Usama A Khashaba**, Hassan S Hedia, Mostafa A Hamed “Composite epoxy material with embedded MWCNT fibers and process of manufacturing” Patent No: US 10427382 B2, Oct 1, 2019

I- International Journals with Impact Factors (ISI)

1. **Khashaba UA.** Dynamic and reliability analysis of scarf adhesive joints in carbon fiber reinforced polymer composites under fatigue loading at room, hot and cold temperatures. Accepted, AIAA Journal (2020).
2. Othman R, **Khashaba UA**, Almitani KH. Compression after impact of CFRP composites immersed in distilled water. International Journal of Crashworthiness, Published online: 28 May 2020, <https://doi.org/10.1080/13588265.2020.1754549>.
3. **Khashaba UA**, Othman R, Najjar IMR. Experimental analysis of composite scarf adhesive joints modified with multiwalled carbon nanotubes under bending and thermomechanical impact loads. Proc Inst Mech Eng Part L: J Materials: Design and Applications 234 (2020)48–64.
4. **Khashaba UA**, Othman R, Najjar IMR. Development and characterization of structural adhesives for aerospace industry with alumina nanoparticles under shear and thermo-mechanical impact loads. Proc Inst Mech Eng Part G: J Aerospace Engineering 234 (2020) 490–507
5. **Khashaba UA**, Sebaey TA, Selmy AI. Experimental verification of a progressive damage model for composite pinned-joints with different clearances. International Journal of Mechanical Sciences 152 (2019) 481–491
6. Bouchak M, Algarni A, Khan A, **Khashaba U.** Effect of SWCNTs and Graphene on the fatigue behavior of antisymmetric GFRP laminate. Compos. Sci. Technol 167 (2018) 164-173
7. **Khashaba UA.** Static and fatigue analysis of bolted/bonded joints modified with CNTs in CFRP composites under hot, cold and room temperatures. Composite Structures 194 (2018) 279–291
8. **Khashaba UA.** Improvement of toughness and shear properties of multi-walled carbon nanotubes/epoxy composites. Polymer composites 39(2018)815-825.
9. **Khashaba UA**, Najjar IMR. Adhesive layer analysis for scarf bonded joint in CFRE composites modified with MWCNTs under tensile and fatigue loads. Composite Structures 184 (2018) 411–427
10. **Khashaba UA**, El-Keran AA. Drilling analysis of thin woven glass-fiber reinforced epoxy composites. Journal of Materials Processing Tech. 249 (2017) 415–425

11. **Khshaba UA**, Othman R. Low-velocity impact of woven CFRE composites under different temperature levels. *International Journal of Impact Engineering* 108(2017)191–204
12. **Khshaba UA**, Aljinaidi AA, Hamed MA. Fatigue and reliability analysis of nano-modified scarf adhesive joints in carbon fiber composites. *Composites Part B* 120 (2017) 103–117
13. **Khshaba UA**, Khdair AI. Open hole compressive elastic and strength analysis of CFRE composites for aerospace applications. *Aerosp Sci Technol*, 60 (2017) 96–107.
14. **Khshaba UA**. Nanoparticle type effects on flexural, interfacial and vibration properties of GFRE composites. *Chinese Journal of Aeronautics*, (2016), 29(2): 520–533
15. **Khshaba UA**, Aljinaidi AA, Hamed MA. Development of CFRE composite scarf adhesive joints with SiC and Al₂O₃ nanoparticle. *Composite Structures* 128 (2015) 415–427.
16. **Khshaba UA**, Aljinaidi AA, Hamed MA. Analysis of adhesively bonded CFRE composite scarf joints modified with MWCNTs. *Composites: Part A* 71 (2015) 59–71.
17. **Khshaba UA**. Toughness, Flexural, Damping and Interfacial Properties of Hybridized GFRE Composites with MWCNTs. *Composites: Part A* 68 (2015) 164–176.
18. Aldosari SM, Hedia HS, Hamed MA, **Khshaba UA**. Design, manufacture and analysis of composite epoxy material with embedded silicon carbide (SiC) and alumina (Al₂O₃) fibers. *Materials Testing* 57(2015) 72–84.
19. Aldosari SM, **Khshaba UA**, Hamed MA, Hedia HS. Design, manufacture and analysis of composite epoxy material with embedded MWCNT fibers. *Materials Testing* 56(2014) 1029–1041.
20. **Khshaba UA**, Aljinaidi AA, Hamed MA. Nanofillers modification of Epocast 50-A1/946 epoxy for bonded joints. *Chinese Journal of Aeronautics* 27(2014)1288–1300
21. **Khshaba UA**. Development and characterization of high performance nano-hybrid GFRE composites for structural applications. *Composite Structures* 116 (2014) 523–534.
22. Alnefaie KA, Aldousari SA, **Khshaba UA**. New development of self-damping MWCNT composites. *Composites: Part A* 52 (2013) 1–11.
23. **Khshaba UA**, Sebaey TA, Mahmoud FF, Selmy AI, Hamouda RM, Experimental and numerical analysis of pinned-joints composite laminates: Effects of stacking sequences. *J. Composite Materials* 47(2013) 3353–3366.
24. **Khshaba UA**, Sebaey TA, Alnefaie KA. Failure and reliability analysis of pinned-joints composite laminates: Effects of stacking sequences. *Composites: Part B* 45 (2013) 1694–1703.
25. **Khshaba UA**, Sebaey TA, Alnefaie KA. Failure and reliability analysis of pinned-joints composite laminates: Effects of pin-hole clearance. *J. Composite Materials* 47(2013)2287–2298
26. **Khshaba UA**. Drilling of polymer matrix composites: A Review. *J. Composite Materials* 47 (2013) 1817–1832.
27. **Khshaba UA**, El-Sonbaty IA, Selmy AI, Megahed AA. Drilling analysis of woven glass fiber-reinforced/epoxy composites. *J. Composite Materials* 47 (2013) 191–205.
28. Khshaba UA, Aldousari SM, Najjar IMR. Behavior of [0]₈ woven composites under combined bending and tension loading: Part - I Experimental and analytical. *J. Composite Materials* 46 (2012) 1345–1355.
29. **Khshaba UA**, El-Sonbaty IA, Selmy AI, Megahed AA. Machinability analysis in drilling woven GFR/Epoxy composites: Part I- Effect of machining parameters. *Composites: Part A*, 41 (2010) 391-400.
30. **Khshaba UA**, El-Sonbaty IA, Selmy AI, Megahed AA. Machinability analysis in drilling woven GFR/epoxy composites: Part II- Effect of drill wear”, *Composites: Part A* 41(2010) 1130–1137.
31. Khoshtakht M, Chowdhury SJ, Seif MA, **Khshaba UA**. Failure of woven composites under combined tension-bending loading. *J. Composite Structures* 90(2009) 279–286.
32. El-sonbaty IA, **Khshaba UA**, Selmy AI, Ali AI. Prediction of surface roughness profiles for milled surfaces using an artificial neural network and fractal geometry approach. *J. Materials Processing Technology* 200(2008) 271-278.
33. **Khshaba UA**, Selmy AI, El-Sonbaty IA, Megahed M. Behavior of notched and unnotched [0/±30/±60/90]_s GFR/epoxy composites under static and fatigue loads. *J. Composite Structures* 81(2007) 606–613.
34. El-Assal AM, **Khshaba UA**. Fatigue analysis of unidirectional GFRP composites under combined bending and torsional loads. *J. Composite Structures* 79(2007) 599–605.
35. Seif MA, **Khshaba UA**, Rojas-Oviedo R. Residual stress measurements in CFRE and GFRE composite missile shells. *J. Composite Structures* 79(2007) 261–269.
36. Seif MA, **Khshaba UA**, Rojas-Oviedo R. Measuring delamination in carbon/epoxy composites using a shadow Moiré laser based imaging technique. *J. Composite Structures* 79(2007) 113–118.
37. **Khshaba UA**, Seif MA, Elhamid MA. Drilling analysis of chopped composites. *Composites: Part A* 38(2007) 61–70.

38. **Khashaba UA**, and Seif MA. Effect of different loading conditions on the mechanical behavior of $[0/\pm 45/90]_s$ woven composites. *J. Composite Structures* 74(2006)440–448.
39. **Khashaba UA**, Sallam HEM, Al-Shorbagy AE, Seif MA. Effect of washer size and tightening torque on the performance of bolted joints in composite structures. *J. Composite Structures* 73(2006) 310–317.
40. **Khashaba UA**. In-Plane Shear Properties of Cross-Ply Laminates with different off-axis angles. *J. Composite Structures* 65(2004) 167–177.
41. **Khashaba UA**. Delamination in drilling GFR-thermoset composites. *J. Composite Structures* 63(2004) 329–338.
42. El-Sonbaty I, **Khashaba UA**, Machaly T. Factors affecting the machinability of GFR/epoxy composites. *J. Composite Structures* 63(2004) 313–327.
43. **Khashaba UA**. Fracture behavior of woven composites containing various cracks geometry. *J. Composite Materials* 37(2003) 5–20.
44. **Khashaba UA**. Fatigue and reliability analysis of unidirectional GFRP composites under rotating bending loads. *J. Composite Materials* 37(2003) 317–331.
45. Abd Allah MH, Abdin EM, Selmy AI, **Khashaba UA**. Effect of mean stress on fatigue behavior of GFRP pultruded rod composites. *J. Composites Part A* 28(1997) 87–91.
46. Abd Allah MH, Abdin EM, Selmy AI, **Khashaba UA**. Effect of fibre volume fractions on fatigue behaviour of GFRP pultruded rod composites. *J. Composites Science and Technology* 56(1996) 23–29.
47. **Khashaba UA**. Notched and pin bearing strengths of GFRP composite laminates. *J. Composite Materials* 30(1996) 2042–2055.
48. Abd Allah MH, Abdin EM, Selmy AI, **Khashaba UA**. Reliability analysis of GFRP pultruded composite rods. *J. Quality and Reliability Management* 13(1996) 88–98.

II- Peer-Reviewed Journals and International Conferences

49. **Khashaba UA**, Othman R, Najjar IMR. Impact and bending analysis of composite scarf adhesive joints modified with MWCNTs at room and hot temperatures. 18th International Conference on Aerospace Sciences & Aviation Technology, IOP Conf. Series: Materials Science and Engineering 610 (2019) 012007, doi:10.1088/1757-899X/610/1/012007
50. **Khashaba UA**, Sebaey TA, Selmy AI. Experimental and finite element analysis of bolt-hole clearance effects in composite joints. AMME-18, April 3 -5, 2018, Cairo, Egypt
51. **Khashaba UA**, Othman R, Najjar IMR. Low-Velocity Impacts on Scarf Joints. *Everant Journals/ETJ*, 2(2017) 324-330, DOI: 10.18535/etj/v2i12.03
52. **Khashaba UA**, Othman R, Najjar IMR. Effect of water absorption on the impact behaviors of CFRE composites. *GJRE-A* 17(2017)41-48
53. **Khashaba UA**. Development of different epoxy-nanofiller systems for adhesive joints in aircraft composite structures. Aviation Engineering Innovations Conference, Luxor, Egypt, March 21-22, 2015
54. **Khashaba UA**, Aljinaidi AA, Hamed MA. Development of CFRE composite joints using MWCNT/E adhesives. Proc. of the 16th Int. AMME Conference, Military Technical College, Kobry El-Kobbah, Cairo, Egypt, 27-29 May, (2014), MS80-101.
55. **Khashaba UA**, Aljinaidi AA, Hamed MA. Developing nanophase epocast 50-a1/946 epoxy for bonded joints. The 5th International Conference on Structural Analysis of Advanced Materials, 23 - 26 September (2013), Kipriotis Village Resort, Island of Kos, Greece.
56. **Khashaba UA**, Alnefaie KA, Aldousari SM. Damping properties of nano-hybrid GFRE composites. 15th International Conference on Aerospace Sciences & Aviation Technology, Military Technical College, Cairo, Egypt, (2013) 199-MS.
57. Aldousari SM, Najjar IMR, **Khashaba UA**. Behavior of $[0]_8$ woven composites under combined bending and tension loading. MEATIP5, Fifth Int. Conf., Assiut University, Egypt, March 28-30, pp.173-186, (2011).
58. Megahed MA, Megahed AA, Sallam HEM, **Khashaba UA**, Seif MA, Abd-Elhamid M. Nano-reinforcement effects on tensile properties of epoxy resin. MEATIP5, Fifth Int. Conf., Assiut University, Egypt, March 28-30, pp.123-135, (2011).
59. Al-Zahrani FA, Mustafa HM, Al-Hamadi A, **Khashaba UA**. Modeling of computer-assisted learning using artificial neural networks. in: Seoyun J.Kwon (Ed.), *New Developments in Artificial Neural Networks Research*, Ch3, ISBN: 978-1-61761-553-5, Nova Science Publishers, Inc., (2011) 41-57.

60. **Khashaba UA**, El-Sonbaty IA, Selmy AI, Megahed AA. Prediction of hole quality in drilling GFRE composites using Artificial Neural Networks. in: Seoyun J. Kwon (Ed.), *Artificial Neural Networks*, Ch4, ISBN: 978-1-61761-553-5, Nova Science Publishers, Inc. (2011)59-76.
61. Sallam HEM, **Khashaba UA**, Seif MA, Abd-Elhamid M, Megahed AA, Megahed MA. Ultrasonic mixing of nanoparticles in epoxy resin. *Int. Conf. on Nano-Technology for Green and Sustainable Construction* 14-17 March, Cairo, Egypt (2010), Edited by G. Yakovlev, Izhevsk Publishing House of ISTU.
62. **Khashaba UA**. Behavior of $[0]_8$ woven composites under monotonic and combined loading. Second Egyptians Engineers Association Conference, Riyadh, KSA, May 20-21, (2010).
63. **Khashaba UA**. Delamination in drilling polymeric composites: a review. In: Paulo Davim J., Editor. *Drilling of composite materials*. Nova Science Publishers, Inc.; (2009) 57-81.
64. **Khashaba UA**. State-of-the-art in: impact of advanced materials on current and future machine development. First Egyptians Engineers Association Conference, Riyadh, KSA, May 14-15, (2009).
65. **Khashaba U**. Delamination in drilling composite laminates: a review. Egyptians Engineers Association Conference, Riyadh, KSA, May 14-15, (2009).
66. Selmy AI, **Khashaba UA**, El-Sonbaty IA, Megahed AA. Experimental evaluation of delamination in drilling of fiber reinforced polymeric composite materials. *EJEST*, Faculty of Engineering, Zagazig University, (2009).
67. Selmy AI, El-Sonbaty IA, **Khashaba UA**, Megahed AA. Prediction of delamination size in drilling FRP composite materials using artificial neural networks. *EJEST*, Faculty of Engineering, Zagazig University (2009).
68. Selmy AI, **Khashaba UA**, Sebaey TA. An experimental study on the bolted joint connections in GFRE $[0/90]_2$ s laminates. *Engineering Research Journal-Menoufia University* 32(2009) 249-253.
69. Al-Zahrani FA, Al-Masmoom AA, **Khashaba UA**. Impact of polymers and polymeric composites on the development of new designs in mechanical, electrical, and civil engineering: a review. *MASAUM Journal of Reviews and Surveys (MJRS) Volume 1, Issue 2*, pp.184-195, (2009).
70. Selmy AI, El-Sonbaty IA, **Khashaba UA**, Megahed AA. Prediction of delamination size in drilling fiber reinforced polymeric composite materials using Artificial Neural Networks technique. *Engineering Research Journal-Menoufia University*, Vol.31-4, pp.369-375, (2008).
71. Selmy AI, **Khashaba UA**, El-Sonbaty IA, Megahed AA. Interlaminar shear behavior of cross-ply GFRP composite with different off-axis angles. *Engineering Research Journal-Menoufia University*, Vol. 31-2, (2008).
72. Selmy AI, **Khashaba UA**, El-Sonbaty IA, Abd El-Baky MA. Tensile and shear properties of cross-ply composite laminates with different off-axis angles. *Engineering Research Journal-Menoufia University*, Vol. 31-2, (2008).
73. Selmy AI, **Khashaba UA**, Elsonbaty A, Ali AI. Prediction of surface roughness profiles for machined surfaces in face milling operation using an Artificial Neural Network and Fractal Geometry approach. *EJEST*, Faculty of Engineering, Zagazig University, Vol.11, pp.161-173, (2007).
74. Ghanem M, Al- Shorbagy AE, **Khashaba UA**, Sallam HEM. Mechanical behavior and failure mode of bolted joints in polymeric composite materials. *MEATIP4, Fourth Assiut University Int. Conf.*, Egypt, December 12-14, CD-Room, Paper N0. MD06, (2006).
75. **Khashaba UA**, Seif MA, Elhamid MA. Investigation into drilling chopped composites. *Proc. of the 6th Int. Eng. Conf.*, Mansoure University, Egypt, (2006).
76. **Khashaba UA**, Sallam HEM, Al-Shorbagy AE, Seif MA. Influence of washer size and tightening torque on the strength of bolted joints in $[0/\pm 45/90]_s$ GFRE composites. *Proc. of the 8th Int. Conf. on Prod. Eng., Design and Control*, Alexandria University, Egypt, (2004).
77. **Khashaba UA**. On the Mechanical behavior of $[0/\pm 45/90]_s$ woven composites subjected to combined bending and tension loading. *Proc. of the 4th Int. Eng. Conf.*, Mansoure University, Egypt, Vol.1, pp.527-539, (2004).
78. Selmy A, El-Sonbaty I, **Khashaba UA**, Abdelkader A. Dynamic viscoelastic behavior of GFR/vinylester and GFR/Epoxy composites. *Proc. of the 4th Int. Eng. Conf.*, Mansoure University, Egypt, Vol.1, pp.515-525, (2004).
79. **Khashaba UA**. In-plane shear properties of cross-ply laminates with different off-axis angles. *MDP8*, Cairo University, Egypt, pp.817-832, (2004)
80. **Khashaba UA**. Delamination in drilling GFR-thermoset composites. *ASAT-10*, Military Technical College, Egypt, (2003)
81. **Khashaba UA**. Fatigue and reliability analysis of unidirectional GFRP composites under rotating bending loads. *PEDD6*, Ain Shams University, Egypt, pp.399-414, (2002)

82. El-Sonbaty I, **Khashaba UA**, Machaly T. Factors affecting the machinability of GFR/Epoxy composites. MEATIP-3, Assiut University, Egypt, Vol.1, PP.203-215, (2002).
83. **Khashaba UA**, Seif M A. Residual stress measurements in CFRE and GFRE composite missile shells. MEATIP-3, Assiut University, Egypt, Vol.1, PP.147-154, (2002).
84. **Khashaba UA**. Fracture behavior of woven composites. Proc. of the Sixth Int. Conf. On Prod. Eng. and Design for Development, Ain Shams University, Egypt, PP.359-371, (2002).
85. **Khashaba UA**, Ali-Eldin SS. Behavior of unidirectional GFR/epoxy composites under tension-torsion biaxial loading. Proc. of the Seventh Int. Conf. on Prod. Eng., Design and Control, Alexandria University, Egypt, Vol.3, PP.1977-1993, (2001).
86. El-Sonbaty I, **Khashaba UA**. Friction and wear behavior of glass fiber reinforced thermoset composites. Proc. of the Seventh Int. Conf. on Mech. Design and Prod., Cairo University, Egypt, Vol.II, PP.323-333, (2000).
87. El-Assal AM, **Khashaba UA**. Combined torsional and bending fatigue of unidirectional GFRP composites. Proc. of the Second Int. Conf. on Mech. Eng. Adv. Tech. for Indus. Prod., Assiut University, Egypt, Vol.1, PP.206-216, (1999).
88. **Khashaba UA**, El-Assal AM. Structural and environmental effect on compressive strength of chopped GFRP composites. Proc. of the Fifth Int. Conf. On Prod. Eng. and Design for Development, Ain Shams University, Egypt, PP.389-402, (1998).
89. **Khashaba UA**. Effect of water and temperature environments on the impact behavior of woven GFR thermoset composites. Proc. of the Fifth Int. Conf. On Prod. Eng. and Design for Development, Ain Shams University, Egypt, PP.359-371, (1998).
90. **Khashaba UA**. shear behavior of unidirectional GFRP composite. Proc. of the Sixth Int. Conf. on Prod. Eng., Design and Control, Alexandria University, Egypt, Vol.1, PP.231-241, (1997).
91. **Khashaba UA**. On the mechanical behavior of [0,+45,90,-45,0] glass/polyester laminate. Proc. of 1st Int. Conf. on Mech. Eng. Adv. Tech. for Indus. Prod., Assiut University, Egypt, Vol.1, PP.289-301, (1994).
92. **Khashaba UA**. Tensile and flexural properties of randomly oriented GFRP composites. Proc. of 1st Int. Conf. on Mech. Eng. Adv. Tech. for Indus. Prod., Assiut University, Egypt, Vol.1, PP.131-143,(1994).
93. Abdin EM, Abd Allah MH, Selmy AI, **Khashaba UA**. Tensile, compressive and flexural properties of FRP composite rods. Proc. of the Fifth Int.Conf. on Mech. Design and Prod., Cairo University, Egypt, PP48-60, (1991).

III- Lecture Notes

1. **U.Khashaba**, “Basic Workshop Processes”, ISBN 977-17-5467-X, (2008).
2. **U. Khashaba**, M.G. Shebl, O.B. Abouelatta, F.A. Al-Zahrani, “Engineering Drawing”, Registered at National Library and Archives, Egypt, 17047, (2008).
3. **U. Khashaba**, “Cutting Tool Design”, Registered at National Library and Archives, Egypt, 4580, (2006).
4. **U. Khashaba**, A. Selmy, I. El-Sonbaty, “Production Technology”, ISBN 977-17-0678-0, (2002).
5. **U. Khashaba**, A. Selmy, I. El-Sonbaty, M. A. Elhamid, “Solved Problems in Production Technology”, Zagazig University, (2003).

PARTICIPATION IN THE FOLLOWING INTERNATIONAL CONFERENCES

1. The 18th International Conference on Aerospace Sciences & Aviation Technology, ASAT – 18, Cairo, Egypt, April 9 – 11, 2019.
2. 18th International Conference on Applied Mechanics and mechanical Engineering AMME-18, Cairo, Egypt, April 3 – 5, 2018.
3. Aviation Engineering Innovations Conference, Luxor, Egypt, March 21-22, 2015
4. The 16th Int. AMME Conf., Military Technical College, Cairo, Egypt, 27-29 May (2014).
5. The 5th International Conf. on Structural Analysis of Advanced Materials, , Kipriotis Village Resort, Island of Kos, Greece, 23 - 26 September (2013).
6. ASAT-15, Military Technical College, Egypt, (2013)
7. The second Conf. of Egypt Engineering Society, Riyadh, KSA, May 14-15, (2010).
8. The first Conf. of Egypt Engineering Society, Riyadh, KSA, May 14-15, (2009).

9. The 6th Int. Eng. Conf., Mansoure University, Egypt, (2006).
10. The 8th Int. Conf. on Prod. Eng., Design and Control, Alexandria University, Egypt, (2004).
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Supervisor on M.Sc. and Ph.D. Thesis

1. M.Sc. Thesis			
No.	Title	Investigator	Finished date
1	Factors Affecting Machinability of F.R.P composites	T. A. Machaly	2002

2	Fatigue Behavior of Notched GFR/Epoxy Composites	M. A. Megahed	2004
3	Modeling of Surface Texture for Machined Surfaces by using Networks	A. I. Ali	2006
4	An Investigation Into the Technology of Composite Materials	M. H. Ibrahim	2007
5	On the Mechanical Properties of Polymeric Composite Materials	M.A.Sallam	2007
6	Analysis of Bolted Joints of Composite Structures	T.A. Sebaei	2009
7	Analysis of Thermal Damage in Drilling Glass Fiber Reinforced Epoxy Composite Materials	Faisal K. Baakeel	2019
8	Theoretical and Experimental Analysis of Thrust Force in Drilling of Fiber Reinforced Epoxy Composite materials	M. S. AlHarthi	2019
2. Ph.D. Thesis			
9	Visco-Elastic Behavior of Polymeric Composite Materials under Mechanical Loads	A.M. Abdelkader	2006
10	Mechanical Behavior of Bolted Joints in Polymeric Composite Materials	M.A. Ghanem	2008
11	Evaluation of Hole Quality in Drilling Fiber Reinforced Composite Materials using Artificial Neural Network	A.A. Megahed	2009