Curriculum Vitae

For* Hossam El-Din Mohammad Sallam, *Professor

Materials Engineering Department, Faculty of Engineering,
Zagazig University, Zagazig, 44519, **EGYPT.**
e-mail: hem_sallam@zu.edu.eg
hem_sallam@yahoo.com

Home Page: https://www.webofscience.com/wos/author/record/G-1334-2011
http://www.hmhelmy.faculty.zu.edu.eg/
https://sciprofiles.com/profile/HossamSallam

Scopus Author ID (**http://scopus.com**) **My** Author ID: 55321010400
ORCID (http://orcid.org/) **My** Public ORCID Record http://orcid.org/0000-0001-9217-9957
Google Scholar: http://scholar.google.com/citations?hl=en&user=P4DA324AAAAJ
LiveDNA (**http://livedna.net**), https://livedna.org/20.1066
ResearchGate: https://www.researchgate.net/profile/Hossam_Sallam

EDUCATION:

1993 *Ph.D.*	Materials Engineering	Zagazig University, **Egypt**
1990 *M.Sc.*	Materials Engineering	Zagazig University, **Egypt**
1985 *B.Sc.*	Civil Engineering	Zagazig University, **Egypt**

TITLE OF DISSERTATIONS :

Fatigue Crack Closure, **Ph.D. Thesis, Zagazig Univ., Egypt, 1993.**
Crack Arresters in Steel Structure Components, **M. Sc. Thesis, Zagazig Univ., Egypt, 1990.**

TITLE OF STATE-OF-THE-ART REPORTS

submitted to Permanent Scientific Committee 58 for Structural & Construction Engineering, Egyptian Universities Promotion Committees (EUPC), Cairo, Egypt:

- ***Structural Joints in Polymeric Composite Materials,* 2004.**
- ***Fatigue and Fracture Mechanisms in Composite Materials,* 1998.**

ADMINISTRATIVE POSITIONS

- Chairman, Scientific Committee, Faculty of Engineering, Jazan University, KSA, 2013-2019.
- Coordinator, Architectural Engineering Department, Jazan University, KSA, 2014- 2017.
- Coordinator, Civil Engineering Department, Jazan University, KSA, 2009- 2019.

AWARDS

Best Researcher Award, the field of Engineering and Computer Science, 2014-2015, Jazan University, KSA. http://deanships.jazanu.edu.sa/res/Pages/ScientificResearchUniversityAward.aspx

Membership

Member of the Examination Committee of the submitted Scientific Production for the State Incentive Awards in Engineering Sciences *2008*, *General Administration of Awards & Incentives,* Academy of Scientific Research & Technology. *http://www.eas.sci.eg/*

Member of the Panel of Adjudicators *2008-2011*, *Committee No. 50 for Structural & Construction Engineering,* Egyptian Universities Promotion Committees (*EUPC*), Supreme Council of Universities (*SCU*). *http://www.eupc.edu.eg/ComMembersJudges.aspx*

Member of the Examination Committee for Professors & Associate Professors, *Committee for Structural & Construction Engineering,* Al-Azhar University Promotion Committees.

Member of the Scientific Committee for Sciences & Technology Unit, Jazan University, KSA.

Member of the College of Engineering Council, Jazan University, KSA.

Editorship

- **Editor-In-Chief Trends in Applied Sciences Research** *http://scialert.net/eboard.php?issn=1819-3579*
- **Associate Editor in Asian Journal of Applied Sciences** *http://scialert.net/eboard.php?issn=1996-3343*
- **Associate Editor in Asian Journal of Materials Science** *http://scialert.net/eboard.php?issn=1996-3394*
- **Associate Editor in Asian Journal of Scientific Research** *http://scialert.net/eboard.php?issn=1992-1454*
- **Editorial board member Buildings, MDPI.** *https://www.mdpi.com/journal/buildings/editors*
- **Editorial board member Egyptian International Journal of Engineering Sciences & Technology** *https://eijest.journals.ekb.eg/*
- **Editorial board member Frattura ed Integrità Strutturale (Fracture and Structural Integrity)** *https://www.fracturae.com/index.php/fis/about/editorialTeam*
- **Editorial board member of Journal of Materials and Engineering Structures (JMES)** *http://revue.ummto.dz/index.php/JMES/about/editorialPolicies#custom-0*
- **Editorial board member of Int. J. of Construction Engineering and Management** *http://www.sapub.org/journal/editorialboard.aspx?journalid=1105*

TEACHING ACTIVITIES (Under- & Post-Graduate) at {Zagazig Univ., Helwan Univ., Al-Azhar Univ., & HTI *in Egypt*), {Northeastern Univ. *in the USA*} and {Jazan Univ., *KSA*}.

Courses taught: **1.** Engineering Mechanics (Statics) **2.** Strength of Materials. **3.** Structural Analysis **4.** Stress Analysis. **5.** Special Concretes. **6.** Composite Materials **7.** Steel Structures Design. **8.** Reinforced Concrete Design. **9.** Repair of Structures **10.** Fracture Mechanics. **11.** Design Against Fatigue. **12.** Finite Element Analysis.

GRADUATE STUDENT ADVISING (*Completed*)

– **Zagazig Univ. (Egypt)**: advisor of **7 Ph.D. & 14 M.Sc.** Theses in Engineering.
– **Al-Azhar Univ. (Egypt)**: advisor of **3 Ph.D. & 3 M.Sc.** Theses in Engineering and **1 Ph.D. & 1 M.Sc.** Theses in Dental Medicine.
– **Cairo Univ. (Egypt)**: advisor of **1 Ph.D. & 1 M.Sc.** Theses in Dental Medicine. And **1 M.Sc.** Thesis in Engineering
– **Helwan Univ. (Egypt)**: advisor of **2 Ph.D. & 2 M.Sc.** Thesis in Engineering.
– **Suez Canal Univ. (Egypt)**: advisor of **1 Ph.D.** Thesis in Engineering.
– **Northeastern Univ. (USA)**: participated with Prof. H. Nayeb-Hashemi for advising **3 M.Sc.** Theses in Engineering.

Examiner for the Degrees of Ph.D. & M.Sc. in Engineering & Dental Medicine

– Annamalai Univ. (*India*): 1 Ph.D. Thesis in **Eng. (*overseas examiner*).**
– **Benha Univ. (*Egypt*): 1 Ph.D. & 1 M.Sc.** Theses in **Eng. (*External examiner*).**
– **Al-Azhar Univ. (*Egypt*): 8 Ph.D. & 4 M.Sc.** Theses in **Eng. (*External examiner*).**
– **Cairo Univ. (*Egypt*): 1 M.Sc.** in **Dental & 1 M.Sc.** in **Eng. (*External examiner*).**
– **Helwan Univ. (*Egypt*): 1 M.Sc.** Thesis in Engineering **(*External examiner*).**
– **Mansoura Univ. (*Egypt*): 1 M.Sc.** Thesis in Engineering **(*External examiner*).**
– **Zagazig Univ. (*Egypt*): 4 Ph.D. & 9 M.Sc.** Theses in **Eng. (*Internal examiner*).**

REFEREE

- Eng. Fract. Mech., Const. & Build. Mat., Eng. Str., Appl. Math. Mod. ***Sciencedirect***.
- **ACI** Structural and Materials Journals. (http://mc.manuscriptcentral.com/aci)
- Materials and Structures, RILEM, (http://www.springer.com/engineering/journal/11527)
- Const. Mat., Bridge Eng.: ***Proceedings of the Institution of Civil Engineers***
- Steel and Composite Structures, Techno-Press (http://technop.kaist.ac.kr/)
- Science Alert (*http://www.scialert.com*)
- Electronic Journal of Structural Engineering http://www.ejse.org/
- Journal of Civil Engineering and Construction Technology (*http://www.academicjournals.org/JCECT*)
- Scientific Research and Essays (*http://www.academicjournals.org/SRE/*)
- Journal of Chemical Engineering and Materials Science (*www.academicjournals.org/JCEMS*)
- King Abdulaziz City for Science and Technology (KACST), KSA, (http://www.kacst.edu.sa/)
- The **Egyptian** Int. J. of Engineering Science & Technology, **Zagazig Univ., Egypt**.
- **ASJCE,** Faculty of Engineering **Ain Shams University, Cairo.**

REFERENCES :

1. **Prof. Hussein Abdel-Raouf,** Materials Engineering Department, **Zagazig University, EGYPT.** Tel 2-(012)225-8727 **e-mail:** abdelraouf40@hotmail.com
2. **Prof. Mohammad M.I. Hammouda**, Mechanical Eng. Dept. **Al-Azhar University**, Cairo, **EGYPT.** . Tel 2(010)455-7551 **e-mail:** mohammad.hammouda@yahoo.com
3. **Prof. Hamid N. Hashemi,** 334 Snell Eng. Center, **Northeastern University**, Boston, MA 02115, **USA**., Tel (617)373-5515 **e-mail:** hamid@coe.neu.edu

PROFESSIONAL EXPERIENCE:

Dates	*Position*	Employer
2004- present	*Professor*	Zagazig Univ., EGYPT

Taught several courses, including:

Strength of materials, Composite materials, Fracture mechanics, Failure analysis, Design against fatigue, Repair and strengthening of structures, and Special concretes.

Supervised and participated in the following research:

Nano-reinforcement effects on damping properties of composite structures under thermal and cryogenic environments, Failure analysis of bolted joints in polymeric composite materials, Strengthening of steel & RC beams, Impact resistance of fiber reinforced concrete (FRC), Fracture behavior of FRC under the mixed mode of loading, and Durability of FRC.

2009- 2019	*Professor* & Coordinator	Jazan Univ., KSA

Taught several courses, including:

Repair and Strengthening of Structures, Structural Analysis, Strength of Material, Engineering Mechanics (Statics), Engineering Drawing,

Supervised and participated in the following research:

Impact Resistance of Polyester Matrix Composite, Impact Behavior of Notched Polymeric Material.

2004- 2009	*Professor*	Zagazig Univ., EGYPT

Taught several courses, including:

Strength of materials, Composite materials, Fracture mechanics, Failure analysis, Design against fatigue, Repair and strengthening of structures, and Special concretes.

Supervised and participated in the following research:

Nano-reinforcement effects on damping properties of composite structures under thermal and cryogenic environments, Failure analysis of bolted joints in polymeric composite materials, Strengthening of steel & RC beams, Impact resistance of fiber reinforced concrete (FRC), Fracture behavior of FRC under the mixed mode of loading, and Durability of FRC.

2004- 2009 ***Adjacent Professor*** **HTI, 10th of Ramadan, EGYPT**

Taught several courses, including:

Strength of Materials, Reinforced Concrete Design, and Steel Structures Design.

Supervised the following Undergraduate Senior Projects: Strengthening RC beams, the Impact resistance of rubberized concrete, and Fracture toughness of fibrous concrete.

1999- 2004 ***Associate Professor*** **Zagazig Univ., EGYPT**

Taught several courses, including:

Strength of materials, Composite materials, Design against fatigue, Repair and strengthening of structures, and Special concretes.

Supervised and participated in the following research:

Fatigue crack growth behavior of cracks emanating from notches, Finite element simulation of fatigue cracks under mixed loading, and Nonlinear fracture behavior of FRC.

1995-1997 ***Visiting Ass. Prof.*** **Northeastern Univ., USA.**

Taught several courses, including:

Advanced strength of materials & Theory of elasticity, and Fracture Mechanics.

Supervised and participated in the following research:

Thermo-mechanical fatigue of metal matrix composite, The effect of matrix and fiber properties on the mechanical properties of fiber reinforced aluminum composites, The effect of pH, cold working, and heat treatment on the mechanical properties of Nextel 440/aluminum composite, and the effect of fiber orientation on friction and wear resistance of Cu-Nb composite.

1993-1995 & 1997-1999 ***Ass. Prof.*** **Zagazig Univ., EGYPT**

Taught several courses, including:

Composite materials, Stress analysis, Fracture mechanics, and Design against fatigue.

Supervised and participated in the following research:

3-D Finite element simulation of crack tip closure, Crack arresters techniques in steel structures, Numerical investigation on structural repair and strengthening of cracked RC beams, Fracture behavior of RC beams, Fatigue crack growth behavior of short crack under variable amplitude loading.

1993-1995 ***Assist. Education Manager*** **(part-time) NEBRAS (IBM Partner), EGYPT** **1986-1993**
Ass. Lecturer **Zagazig Univ., EGYPT** ***Taught*** several courses, including:

Solid Mechanics, Structure I & II, Stress Analysis, and Strength of Materials.

1985-1986 ***Designer*** **Engineering Corps, Egyptian Army**

COMPUTER EXPERTISE :

Languages: FORTRAN, Q. BASIC

Software: Spreadsheets (EXCEL), Elastic-Plastic 2-D & 3-D Finite Element programs (developed by myself), PowerPoint, Microsoft word.

PUBLICATIONS :

A- Reviewed Journal Articles:

Journal Title	Publisher
International Journal of Metalcasting	*Springer*

1- A Bahgat, MAH El-Meniawi, SM Khafagy, **H.E.M. Sallam,** M. Atta, "Effect of mold casting parameters in interface properties of iron/copper bimetallic composites based upon an ancient Quranic metal matrix composite (QMMC)", ***International Journal of Metalcasting*****,** In Press **(2023).** https://doi.org/10.1007/s40962-023-01066-x

Journal of Materials Research and Technology	*Sciencedirect*

2- S. Mousa, S., M. Mutnbak, A.A Abd-Elhady, **H.E.M. Sallam**, R.M. Reda, " The efficiency of advanced polymeric composite sleeves in the rehabilitation of cracked pipelines under combined loadings", ***Journal of Materials Research and Technology,*** 25, Pages 6395-6406, **July–August 2023.** https://doi.org/10.1016/j.jmrt.2023.07.078

3- Sultan Althahban, Abdullah S Alomari, **H.E.M. Sallam**, Yosef Jazaa, "An investigation of wear, mechanical, and water sorption/solubility behaviors of a commercial restorative composite containing nano-additives", ***Journal of Materials Research and Technology,*** 23, Pages 491-502, **March–April 2023.** https://doi.org/10.1016/j.jmrt.2023.01.025

Composite Structures	*Sciencedirect*

4- M. Taimour, A.A. Abd-Elhady, **H.E.M. Sallam**, SAA Sayed, "Implementing functionally graded fibers technique to enhance pinned-joint performance in cross-ply laminate polymeric composites", ***Composite Structures***, Vol. 313, 116931, **June 2023.** https://doi.org/10.1016/j.compstruct.2023.116931

5- I. El-Sagheer, A.A Abd-Elhady, **H.E.M. Sallam**, Soheir AR Naga, SAA Sayed, " Flexural and fracture behaviors of functionally graded long fibrous polymeric composite beam-like specimens ", ***Composite Structures***, Vol. 300, 116140, **2022**. https://doi.org/10.1016/j.compstruct.2022.116140

Scientific Reports	*Springer Nature*

6- R.M. Reda, H.S.E. Mahmoud, S.S.E. Ahmad, **H.E.M. Sallam**, "Mechanical properties of sustainable concrete comprising various wastes", ***Scientific Reports , 13***, 13234 (2023). https://doi.org/10.1038/s41598-023-40392-2

7- S. Mousa, S., M. Mutnbak, A.M. Saba, , A.A Abd-Elhady, **H.E.M. Sallam**, "Numerical study and experimental validation of the size effect of smooth and mode I cracked semi-circular bend specimens", ***Scientific Reports , 13***, 7570, **2023**. https://doi.org/10.1038/s41598-023-34201-z

Construction and Building Materials	*Sciencedirect*

8- RA El-Sadany, **H.E.M. Sallam**, and SH Al-Tersawy, " Effect of hybrid nanoparticles additions to normal weight concrete on its microstructures and mechanical properties before and after exposure to gamma-rays", ***Construction and Building Materials*** 376, 131037, https://doi.org/10.1016/j.conbuildmat.2022.127924, **2 may 2023**.

Buildings	*MDPI*

9- M.A. AbdAllah, A.A. Elakhras, R.M. Reda, **H.E.M. Sallam**, and M. Moawad, " Applicability of CMOD to obtain the actual fracture toughness of rightly-cracked fibrous concrete beams", ***Buildings,*** 13(8), 2010, **2023.** https://doi.org/10.3390/buildings13082010

Int. Journal of Concrete Structures and Materials	*Springer*

10- SH Al-Tersawy, SE Zakey, RA El-Sadany, and **H.E.M. Sallam**, "Utilization of various industrial wastes in ordinary concrete under normal manufacturing conditions", ***International Journal of Concrete Structures and Materials*****,** Vol. **17**, 44 **(2023).** https://doi.org/10.1186/s40069-023-00603-6

Construction and Building Materials	*Sciencedirect*

11-A.Y.F. Ali, H.M. El-Emam, M.H. Seleem, **H.E.M. Sallam**, and M. Moawad, "Effect of crack and fiber length on mode I fracture toughness of matrix-cracked FRC beams", ***Construction and Building Materials*** 341, 127924, https://doi.org/10.1016/j.conbuildmat.2022.127924, **25 July 2022**.

Buildings	*MDPI*

12-A.M. Merwad 1, A.A. El-Sisi, S.A.A. Mustafa, and **H.E.M. Sallam**, "Lateral Impact Response of Rubberized-Fibrous Concrete-Filled Steel Tubular Columns: Experiment and Numerical Study", ***Buildings,*** 12(10), 1566, **2022.** https://doi.org/10.3390/buildings12101566

13-M. Warda, S.S.E. Ahmed, I. Mahdi, **H.E.M. Sallam**, and H.S. Khalil, "The Applicability of TOPSIS- and Fuzzy TOPSIS-Based Taguchi Optimization Approaches in Obtaining Optimal Fiber-Reinforced Concrete Mix Proportions", ***Buildings,*** 12(6), 796, **2022.** https://doi.org/10.3390/buildings12060796

Sustainability ***MDPI***

14-S. Mousa, A.S Alomari, S.Vantadori, W.H. Alhazmi, A. Abd-Elhady, and **H.E.M. Sallam**, "Mechanical behavior of epoxy reinforced by hybrid short palm/glass fibers", ***Sustainability,*** 14(15), 9425, **2022.** https://doi.org/10.3390/su14159425

Archives of Civil and Mechanical Engineering ***Springer***

15-A.Y.F. Ali, M. Moawad, M.H. Seleem, **H.E.M. Sallam**, and, H.M. El-Emam, " Mixed-mode fracture toughness of high strength FRC: a realistic experimental approach", ***Archives of Civil and Mechanical Engineering,*** **22(168),** DOI: 10.1007/S43452-022-00492-8, **2022**.

16-A.A. Elakhras, M.H. Seleem, and **H.E.M. Sallam**, "Real fracture toughness of FRC and FGC: size and boundary effects", ***Archives of Civil and Mechanical Engineering,*** **22(99),** DOI: 10.1007/s43452-022-00424-6, **2022**.

Journal of Industrial Textiles ***Sage***

17-M. Atta, A. Abu-Sinna, S. Mousa, **H.E.M. Sallam,** and A.A. Abd-Elhady," Flexural behavior of functionally graded polymeric composite beams", ***Journal of Industrial Textiles***, Vol. 51(3S) 4268S–4289S**,** ***2022.*** DOI: 10.1177/15280837211000365

Polymers ***MDPI***

18-W. Alhazmi, Y. Jazaa, S. Althahban, S. Mousa, A. Abu-Sinna, A. Abd-Elhady, **H.E.M. Sallam**, and M. Atta, "Mechanical and Tribological Behavior of Functionally Graded Unidirectional Glass Fiber-Reinforced Epoxy Composites", ***Polymers,*** 14(10), 2057, **2022.** https://doi.org/10.3390/polym14102057

19- Alaa E. El-Sisi, H. El Emam, A. El-Kholy, S.S.E. Ahmed, **H.E.M. Sallam**, and H. Salim, "Structural Behavior of RC Beams Containing Unreinforced Drilled Openings with and without CFRP Strengthening", ***Polymers,*** 14(10), 2034, **2022.** https://doi.org/10.3390/polym14102034

Materials ***MDPI***

20-S. Althahban, Y. Jazaa, O. Bafakeeh, A.S. Alomari, **H.E.M. Sallam**, and M. Atta, "The Effect of Reinforcement Preheating Temperatures on Tribological Behavior of Advanced Quranic Metal-Matrix Composites (QMMC)", ***Materials,*** 15(2), 659, **2022.** https://doi.org/10.3390/ma15020659

Frattura ed Integrità Strutturale ***Italian Group of Fracture (IGF)***

21-RA El-Sadany, SH Al-Tersawy, and **H.E.M. Sallam**, "Effect of GFRP and steel reinforcement bars on the flexural behavior of RC beams containing recycled aggregate", ***Frattura ed Integrità Strutturale*** 16 (61), 294-307**, 2022**.

22-A.A. Elakhras, M.H. Seleem, and **H.E.M. Sallam**, "Fracture toughness of matrix cracked FRC and FGC beams using equivalent TPFM", ***Frattura ed Integrità Strutturale*** 16 (60), 73-88**, 2022**.

23- F. Agag, SSE Ahmad, **H.E.M. Sallam**, "Experimental assessment of different strengthening techniques for opening in reinforced concrete beams", ***Frattura ed Integrità Strutturale*** 16 (59), 549-565**, 2022**.

Engineering Fracture Mechanics ***Sciencedirect***

24-A.A. Elakhras, M.H. Seleem, and **H.E.M. Sallam** "Intrinsic fracture toughness of fiber reinforced and functionally graded concretes: An innovative approach", ***Engineering Fracture Mechanics***, Vol. 258, 108098, **2021.**

The Journal of Adhesion ***Taylor & Fracis***

25-A.A. Abd-Elhady, S. Mousa, W.H. Alhazmi, **H.E.M. Sallam**, and M. Atta, "Effects of composite patching on cyclic crack tip deformation of cracked pinned metallic joints", ***The Journal of Adhesion,*** Vol. 97, No. 16, 1561–1577, **2021.**

Archives of Civil and Mechanical Engineering ***Springer***

26-M.A. Othman, H.M. El-Emam, M.H. Seleem, **H.E.M. Sallam**, and M. Moawad, "Flexural behavior of functionally graded concrete beams with different patterns", ***Archives of Civil and Mechanical Engineering,*** Vol. 21:169 (4), 16 pp, **2021**.

27-Saeed Mousa, Amr A. Abd-Elhady, Gap-Yong Kim, and **H.E.M. Sallam**, "Fracture behavior of roll bonded Al-brass-Al multilayer composites", ***Archives of Civil and Mechanical Engineering,*** Vol. 21:60 (2), 11 pp, **2021**.

28-SH Al-Tersawy, RA El-Sadany, and **H.E.M. Sallam**, "Long-term behavior of normal weight concrete containing hybrid nanoparticles subjected to gamma radiation", ***Archives of Civil and Mechanical Engineering,*** Vol. 21:9(1), 18 pp, **2021**.

Engineering Structures ***Sciencedirect***

29-M. Moawad, M. Baena, M, C. Barris, L. Torres, and **H.E.M. Sallam**, "Time-dependent behavior of NSM strengthened RC beams under sustained loading ", ***Engineering Structures***, Vol. 247, 113210, **2021**.

30-Alaa E. El-Sisi, H. El Emam, H. Salim, and **H.E.M. Sallam**, "Deformation and load transfer analysis of staggered composite-steel lap joints subjected to progressive damage", ***Engineering Structures***, Vol. 215, 110690, **2020**.

Polymers ***MDPI***

31-I El-Sagheer, A.A. Abd-Elhady, **H.E.M. Sallam**, and S.A.R. Naga, " An Assessment of ASTM E1922 for Measuring the Translaminar Fracture Toughness of Laminated Polymer Matrix Composite Materials***", Polymers***, 13(18), 3129**, 2021**.

Materials Research ***SciELO***

32-S. Mousa, **H.E.M. Sallam**, and A.A. Abd-Elhady, "Mechanical Properties of Al/PU/Perforated CU/PU/Al Sandwich Composites***", Materials Research***, 24(5)**,** e20210104**, 2021**.

Construction and Building Materials ***Sciencedirect***

33- SH Al-Tersawy, RA El-Sadany, and **H.E.M. Sallam**, " Experimental gamma-ray attenuation and theoretical optimization of barite concrete mixtures with nanomaterials against neutrons and gamma rays, ***Construction and Building Materials*** 289, 123190, **2021**.

Polymers and Polymer Composites ***Sage***

34-A.A. Abd-Elhady, A. Meroufel, **H.E.M. Sallam**, and M. Atta, "Experimental and numerical determination of critical osmotic blister size affecting the strength of aged FRP seawater pipe", ***Polymers and Polymer Composites,*** Vol. 29(5), 456-469, **2021**.

Arabian Journal for Science and Engineering ***Springer***

35- M. A. Mubaraki, and **H.E.M. Sallam**, "The most effective index for pavement management of urban major roads at a network level", ***Arab J Sci Eng***, 46(5), 4615–4626, **2021**.

Latin American Journal of Solids and Structures ***Associação Brasileira de Ciências Mecânicas***

36-W.H. Alhazmi, Y. Jazaa, S. Mousa, A.A. Abd-Elhady, and **H.E.M. Sallam**, " Tribological and Mechanical Properties of Epoxy Reinforced by Hybrid Nanoparticles", ***Lat. Am. j. solids struct***, 18(3)**,** e361**, 2021**.

37-H. EL-EMAM, A. ELSISI, M.K. BNENI, S.S. AHMED, and **H.E.M. Sallam**, "Effects of tensile reinforcing steel ratio and Near-Surface-Mounted bar development length on the structural behavior of strengthened RC beams", ***Lat. Am. j. solids struct.,*** 17(6), e295, 11 pp. **2020**.

Journal of Pressure Vessel Technology ***ASME***

38- T. M. El-Bagory, **H.E.M. Sallam**, and M. Younan, "Effect of Loading Rate and Pipe Wall Thickness on the Strength and Toughness of Welded and Unwelded Polyethylene Pipes", ***JPVT***, 143(1), 011505, (14 pages), **2021**.

International Journal of Pavement Engineering ***Taylor & Fracis***

39-M.A. Mubaraki and **H.E.M. Sallam**, "Reliability study on fracture and fatigue behavior of pavement materials using SCB specimen ", ***International Journal of Pavement Engineering***, 21 (13), 1563–1575, **2020**.

Frattura ed Integrità Strutturale ***Italian Group of Fracture (IGF)***

40- I El-Sagheer, M Taimour, M Mobtasem, A Abd-Elhady, **H.E.M. Sallam**, "Finite element analysis of the behavior of bonded composite patches repair in aircraft structures", ***Frattura ed Integrità Strutturale*** 14 (54), 128-138, **2020**.

41- RM Reda, Z Omar, **H.E.M. Sallam**, SSE Ahmad, "Effect of different parameters controlling the flexural behavior of RC beams strengthened with NSM using nonlinear finite element analysis", ***Frattura ed Integrità Strutturale*** 14 (53), 1106-123, **2020**.

Engineering Failure Analysis ***Sciencedirect***

42-A Bashiri, **H.E.M. Sallam**, and A.A. Abd-Elhady, "Progressive Failure Analysis of a Hip Joint Based on Extended Finite Element Method", ***Engineering Failure Analysis, Vol 117,*** **104829**, **2020**.

43-M. Atta, A. Abu-Sinna, A.A. Abd-Elhady, and **H.E.M. Sallam**, "Prediction of failure stages for double lap joints using finite element analysis and artificial neural networks", ***Engineering Failure Analysis, Vol 97, pp 242-257***, **2019**.

Journal of Civil Structural Health Monitoring ***Springer***

44-Alaa El-Din El-Sisi, O. M. El-Husseiny, E. B. Matar, **H.E.M. Sallam**, and H. Salim, "Field-testing and numerical simulation of vantage steel bridge", ***Journal of Civil Structural Health Monitoring,*** Vol. 10(3),443-456, **2020**.

Advances in Structural Engineering ***Sage***

45-A.A. Abd-Elhady, Abu-Sinna, M. Atta, and **H.E.M. Sallam**, "Identification of damage stages in bolted metallic joints for different joint geometries and tightening torques using statistical analysis", ***Adv. Struct. Eng.*** 23(5), 911-923, **2020**.

Composite Structures ***Sciencedirect***

46-A.A. Abd-Elhady, I.M. Alarifi, R.A. Malik, **H.E.M. Sallam**, and T.M. El-Bagory, "Investigation of fatigue crack propagation in steel pipeline repaired by glass fiber reinforced polymer", ***Composite Structures***, Vol. 242, 112189, **2020**.

47-I.A. Sharaky, S.A. Selmy, M. El-Attar, and **H.E.M. Sallam**, "The Influence of interaction between NSM and internal reinforcements on the structural behavior of upgrading RC Beams", ***Composite Structures***, Vol. 234, 111751, **2020**.

Procedia Structural Integrity ***Sciencedirect***

48- S. Mousa, A.A. Abd-Elhady, A. Abu-Sinna, T. Enab, W.H. Alhazmi, and **H.E.M. Sallam**, "Mixed Mode Crack Growth in Functionally Graded Material Under Three-Point Bending", ***Procedia Structural Integrity***, Vol. 17, pp 284–291, **2019**.

49- W.H. Alhazmi, Amr A. Abd-Elhady, S. Mousa, M. Atta, A. Abu-Sinna, O. Bafakeeh, and **H.E.M. Sallam**, "Notch Tensile Strength of Carbon Fiber/Epoxy Composite Plate with a Center Hole under Static and Cyclic Loading", ***Proc. Struct. Integr***., Vol. 17, pp 292–299, **2019**.

Latin American Journal of Solids and Structures ***Associação Brasileira de Ciências Mecânicas***

50-M.A. Mubaraki, S.A. Osman, and **H.E.M. Sallam**, " Effect of RAP content on flexural behavior and fracture toughness of flexible pavement ", ***Lat. Am. j. solids struct.,*** Vol. 16(3), e177, 15 pp. **2019**.

Construction and Building Materials ***Sciencedirect***

51-Alaa El-Din El-Sisi, **H.E.M. Sallam**, Hani Salim and Osama M. El-Husseiny, "Structural behavior of hybrid CFRP/steel bolted staggered joints", ***Construction and Building Materials***, Vol. 190, pp 1192–1207, **201**8.

Engineering Structures ***Sciencedirect***

52-I.A. Sharaky, M. Baena, M, C. Barris, **H.E.M. Sallam**, and L. Torres, " Effect of axial stiffness of NSM FRP reinforcement and concrete cover confinement on flexural behaviour of strengthened RC beams: Experimental and numerical study", ***Engineering Structures***, Vol. 173, 987-1001, **2018**.

Journal of the Brazilian Society of Mechanical Sciences and Engineering ***Springer***

53-A. Abu-Sinna, A.A. Abd-Elhady, M. Atta and **H.E.M. Sallam**, " The failure stages of bolted double-lap metallic joints: experimental study ", ***J. Braz. Scoc. Mech. Sc. & Eng.,*** Vol. 40(8), 388. **2018**.

Latin American Journal of Solids and Structures ***Associação Brasileira de Ciências Mecânicas***

54-H.S.S. Abou El-Ma, A.S. Sherbini, and **H.E.M. Sallam**, "Structural Behavior of RC Beams Containing a Pre-Diagonal Tension Crack", ***Lat. Am. j. solids struct.,*** Vol. 15(7), e82, 14 pp. **2018**.

55-A.A. Abd-Elhady, M.A. Mubaraki and **H.E.M. Sallam**, "Progressive failure prediction of pinned joint in quasi-isotropic laminates used in pipelines", ***Lat. Am. j. solids struct.,*** Vol. 15(6), e96, 14 pp. **2018**.

International Journal of Steel Structures ***Springer***

56-Hesham El Emam, Alaaeldin El-Sisi, Hani Salim, and **Hossam Sallam**, "Fatigue Crack Tip Plasticity for Inclined Cracks", ***International Journal of Steel Structures***, Vol. 18(2), pp 443–455, **2018**.

Procedia Structural Integrity ***Sciencedirect***

57- Saeed Mousa, Amr A. Abd-Elhady, Gap-Yong Kim, and **H.E.M. Sallam**, "Fracture behavior of roll bonded Al-brass-Al multilayer composites – Concept of the maximum undamaged defect size (d_{max})", ***Procedia Structural Integrity***, Vol. 13, pp 686–693, **2018**.

58-A.A. Abd-Elhady, **H.E.M. Sallam** and M.A. Mubaraki, "Failure Analysis of Composite Repaired Pipelines with an Inclined Crack under Static Internal Pressure", ***Procedia Structural Integrity***, Vol. 5, pp 132–130, **2017**.

59-M.A. Mubaraki, A.A. Abd-Elhady, S.A. Othman and **H.E.M. Sallam**, "Mixed mode fracture behavior of concrete pavement containing RAP - 3D finite element analysis", ***Procedia Structural Integrity***, Vol. 5, pp 19–26, **2017**.

Construction and Building Materials ***Sciencedirect***

60-I.A. Sharaky, R.M. Reda, M. Ghanem, M.H. Seleem, and **H.E.M. Sallam**, "Experimental and numerical study of RC beams strengthened with bottom and side NSM GFRP bars having different end conditions", ***Construction and Building Materials***, Vol. 149, pp 882–903, 15 September **2017**.

Journal of Composites for Construction ***ASCE., USA***

61-Amr A. Abd-Elhady and **Hossam El-Din M. Sallam, Discussion of** "Fatigue Behavior of Cracked Steel Plates Strengthened with Different CFRP Systems and Configurations" by Hai-Tao Wang, Gang Wu, and Jian-Biao Jiang, ***J. Compos Constr.*****, Vol. 21, No. 3**, **07016004**, **2017**.

Journal of Structural Engineering ***ASCE., USA***

62- H. M. El Emam, H. A. Salim, **H.E.M. Sallam**, "Composite patch configuration and pre-stress effect on SIFs for inclined cracks in steel plates", ***J. Struct. Engng*., Vol. 143, No. 5, 04016229-1 (12 pages), 2017**.

Magazine of Concrete Research ***Thomas Telford Ltd, UK***

63-M.A. Shubaili and **H.E.M. Sallam, Discussion: "Mechanical properties of hybrid fibre-reinforced concrete–analytical modelling and experimental behavior",** ***Magazine of Concrete Research***, **UK**, **Vol. 68 Issue 22, pp. 1183-1186, 2016**.

Journal of Composites for Construction ***ASCE., USA***

64-H. M. El Emam, H. A. Salim, **H.E.M. Sallam**, "Composite patch configuration and prestraining on crack tip deformation and plastic zone for inclined cracks", ***J. Compos Constr*., Vol.20, No.4**, **04016002-1 (11 pages), 2016.**

Composite Structures ***Sciencedirect***

65-R.M. Reda, I.A. Sharaky, M. Ghanem, M.H. Seleem, and **H.E.M. Sallam**, " Flexural behavior of RC beams strengthened by NSM GFRP Bars having different end conditions", ***Composite Structures***, Vol. 147, 131-142, **2016**.

Int. Journal of Concrete Structures and Materials ***Springer***

66- H.S.S. Abou El-Ma, A.S. Sherbini, and **H.E.M. Sallam**, "Mode II fracture toughness of hybrid FRCs", ***International Journal of Concrete Structures and Materials*,** Vol.9, No.4, pp.475–486, **2015**.

Engineering Fracture Mechanics ***Sciencedirect***

67- A. A. Abd-Elhady and **H.E.M. Sallam** "Crack sensitivity of bolted metallic and polymeric joints", ***Engineering Fracture Mechanics***, Vol. 147, PP 55–71, **2015**.

Composite Structures ***Sciencedirect***

68- I.A. Sharaky, L. Torres, and **H.E.M. Sallam**, "Experimental and analytical investigation into the flexural performance of RC beams with partially and fully bonded NSM FRP bars/strips", ***Composite Structures***, Vol. 122, pp 113-126, **2015**.

Ain Shams Engineering Journal ***Sciencedirect***

69- H.S.S. Abou El-Ma, A.S. Sherbini, and **H.E.M. Sallam**, "Locating the site of diagonal tension crack initiation and path in reinforced concrete beams", ***Ain Shams Engineering Journal***, Vol. 6, pp 17-24, **2015**.

Journal of Bio- and Tribo-Corrosion ***Springer***

70- Kh. Abd El-Aziz, Kh. Zohdy, D. Sabe, **H.E.M. Sallam**, "Wear and Corrosion Behavior of High-Cr White Cast Iron Alloys in Different Corrosive Media", ***J Bio Tribo Corros***, Vol. 1, **No. 4, Article 25, 2015**.

71- Kh. Abd El-Aziz, D. Sabe, **H.E.M. Sallam**, "Wear and corrosion behavior of Al–Si matrix composite reinforced with alumina", ***J Bio Tribo Corros***, Vol. 1, **No. 1, Article 5, 2015**.

Journal of Pressure Vessel Technology ***ASME***

72- T. M. El-Bagory, **H.E.M. Sallam**, M. Younan, "Evaluation of Fracture Toughness Behavior of Polyethylene Pipe Materials", ***JPVT***, 137(6), 061402, (10 pages), **2015**.

Journal of composite Materials ***SAGE***

73- A.E.A. El-Sisi, H.M. El-Emam, H. A. Salim, and **H.E.M. Sallam**, "**Efficient 3D modeling of damage in composite materials**", ***Journal of Composite Materials,*** Vol. 49, pp. 817-828, **2015**.

Int. J. of Engineering Innovation & Research ***Timeline Publication Pvt. Ltd.***

74- Fathelrahman M. Adam, A. E. Hassaballa and **H.E.M. Sallam**, "Derivation of supports moments coefficients for prismatic continuous beams by elastic analysis", ***IJEIR***, Vol. 4, No. 4, 613-622, **2015**.

Arabian Journal for Science and Engineering ***Springer***

75- **H.E.M. Sallam**, M. A. Mubaraki, and Nur Izzi Md. Yusoff, "Application of the Maximum Undamaged Defect Size (d_{max}) Concept in Fiber-Reinforced Concrete Pavements", ***Arab J Sci Eng***, Vol. 39, pp 8499-8506, **2014**.

Theoretical and Applied Fracture Mechanics ***Sciencedirect***

76- T. M. El-Bagory, **H.E.M. Sallam**, M. Younan, "Effect of strain rate, thickness, welding on the *J–R* curve for polyethylene pipe materials", ***Theor. Appl. Fract. Mech***, Vol. 74, pp 164-180, **2014**.

Engineering Failure Analysis ***Sciencedirect***

77- A.E.A. El-Sisi, H. A. Salim, O. El-Hussaini, and **H.E.M. Sallam**, "Behaviors of a cracked lapped joint under mixed mode loading", ***Engineering Failure Analysis,*** Vol. 36, pp 134-146, **2014**.

Journal of Pressure Vessel Technology ***ASME***

78- T. M. El-Bagory, M. Younan, **H.E.M. Sallam**, L. Abdel-Latif, "Limit load determination and material characterization of cracked polyethylene miter pipe bends", ***JPVT***, Vol. 36(4), 041203 (11 pages), **2014**.

79- T. M. El-Bagory, M. Younan, **H.E.M. Sallam**, L. Abdel-Latif, "Effect of load angle on limit load of polyethylene miter pipe bends", ***JPVT***, Vol. 36(3), 031202 (10 pages), **2014**.

Materials & Design ***Sciencedirect***

80- **H.E.M. Sallam**, Kh. El-Aziz, H. Abd El-Raouf, and E.M. El-Bana, "Failure analysis and flexural behavior of high chromium white cast iron and AISI4140 Steel bimetal beams", ***Materials & Design***, Vol. 52, pp 974-980, **2013**.

Journal of Materials Engineering and Performance ***Springer/ ASM Int.***

81- **H.E.M. Sallam**, Kh. El-Aziz, H. Abd El-Raouf, and E. El-Bana, "Flexural strength and toughness of austenitic stainless steel reinforced high-Cr white cast iron composite", ***JMEP***, Vol. 22, pp 3769–3777, **2013**.

Journal of Pressure Vessel Technology ***ASME***

82- T. M. El-Bagory, M. Younan, **H.E.M. Sallam**, L. Abdel-Latif, "Plastic load of precracked_polyethylene miter pipe bends subjected to in-plane bending moment", ***JPVT***, Vol. 35(6), 061203 (9 pages), 2013.

Int. J. of Pavement Rese. & Tech. ***Chinese Society of Pavement Engng.***

83- M. A. Mubaraki, A. A. Abd-Elhady**,** and **H.E.M. Sallam,** "Mixed Mode Fracture Toughness of Recycled Tire Rubber-Filled Concrete for Airfield Rigid Pavements**",** ***Int. J. Pavement Res. Technol.,*** 6(1), 8-14, **2013.**

Researches and Applications in Mechanical Engineering ***Science and Engineering Publishing Company***

84- **H.E.M. Sallam,** and A. A. Abd-Elhady**, "** Crack length-effective stress intensity factor relation in notched semi-circular specimens for different mode of mixity**",** ***RAME*****,** 2(4), 120-124, **2013.**

Asian Journal of Materials Science ***Science Alert***

85- **H.E.M. Sallam,** and A. A. Abd-Elhady**, "**Mixed mode crack initiation and growth in notched semi-circular specimens-Three dimensional finite element analysis**",** ***Asian J Mater Sci.,*** 4(2), 34-44, **2012.**

ACI Materials Journal ***American Concrete Institute***

86- **H.E.M. Sallam Discussion of "**Flexural impact behavior of textile and hybrid cement-based composites" by Efrat Haim and Alva Peled, ***ACI Materials Journal,*** p. 244, **March-April 2012.**

Engineering Failure Analysis ***Sciencedirect***

87- **H.E.M. Sallam**, A.E.A. El-Sisi, E.B. Matar, and O. El-Hussaini, "Effect of clamping force and friction coefficient on stress intensity factor of cracked lapped joints", ***Eng. Fail. Anal.,*** **Vol. 18,** pp. 1550-58, **2011**.'

Journal of Constructional Steel Research ***Sciencedirect***

88- **H.E.M. Sallam**, A.M. Badawy, A.M. Saba and F.A. Mikhail, "Flexural behavior of strengthened steel-concrete composite beams by various plating methods", ***J. Const. Steel Res.,*** Vol. 66, pp 1081-87, **2010**.

Materials & Design ***Sciencedirect***

89- M.H. Seleem, I.A. Sharaky, and **H.E.M. Sallam**, "Flexural behavior of steel beams strengthened by carbon fiber reinforced polymer plates–Three dimensional finite element simulation", ***Materials & Design***, Vol. 31, pp 1317-24, **2010**.

Journal of Bridge Engineering ***ASCE., USA***

90- **H.E.M. Sallam** ***Discussion of*** "Flexural strengthening of steel bridges with high modulus CFRP strips" by David Schnerch and Sami Rizkalla, ***J. of Bridge Engineering*****,** Vol. 15, pp 117-118, **2010**.

Advances in Structural Engineering ***Sage***

91- **H.E.M. Sallam**, S.S.E. Ahmad, A.A.M. Badawy, and W. Mamdouh, "Evaluation of steel I-beams strengthened by various plating methods", ***Adv. Struct. Eng.***, Vol. 9, pp 535-544, Multi-Science Pub., **2006**.

Composite Structures ***Sciencedirect***

92- U.A. Khashaba, **H.E.M. Sallam**, A.E. Al-Shorbagy, and M.A. Seif, "Effect of washer size and tightening torque on the performance of bolted joints in composite structures", ***Composite Structures***, Vol. 73, pp 310-317, **2006**.

Journal of Advanced Concrete Technology ***Japan Concrete Institute***

93- **H.E.M. Sallam**, A.M. Saba, H.H. Shaheen, and H. Abdel-Raouf "Prevention of peeling failure in plated beams" ***J. Advanced Concrete Technology***, ***JCI***, Vol. 2, No. 3, pp 419-429, October **2004**.

International Journal of Fracture ***Kluwer Academic Pub.***

94- M.M.I. Hammouda, A.S. Fayed, and **H.E.M. Sallam**, "Stress intensity factors of a central slant crack with frictional surfaces in plates with biaxially loading", ***Int.J.Fract.*****,** V. 129, 141-1 48, **2004**.

International Journal of Fatigue ***Sciencedirect***

95- M.M.I. Hammouda, **H.E.M. Sallam** , and H.G. Osman, "Significance of crack tip plasticity to early notch fatigue crack growth", ***Int. J. of Fatigue*****,** Vol. 26, No. 2, pp. 173-182, **2004**.

96- M.M.I. Hammouda, H.G. Osman, and **H.E.M. Sallam**, "Mode I notch fatigue crack growth behaviour under constant amplitude loading and due to the application of a single tensile overload", ***Int. J. of Fatigue***, Vol. 26, No. 2, pp. 183-192, **2004**.

97- M.M.I. Hammouda, A.S. Fayed, and **H.E.M. Sallam**, "Simulation of mixed mode I/II cyclic deformation at the tip of a short kinked inclined crack with frictional surfaces", ***Int. J. of Fatigue*****,** Vol. 25, No. 8, pp. 743-753, **2003**.

98- M.M.I. Hammouda, A.S. Fayed, and **H.E.M. Sallam,** "Stress intensity factors of a shortly kinked slant central crack with frictional surfaces in uniaxially loaded plates", ***Int. J. of Fatigue*****,** Vol. 25, No. 4, pp. 283-298, **2003**.

99- M.M.I. Hammouda, A.S. Fayed, and **H.E.M. Sallam,** "Mode II stress intensity factors for central slant cracks with frictional surfaces in uniaxialy compressed plates", **Int. J. of Fatigue**, Vol. 24, No. 12, pp. 1213-1222, **2002**.

Magazine of Concrete Research ***Thomas Telford Ltd, UK***

100- **H.E.M. Sallam** ***Discussion on*** "*The effect of alkali-silica-reaction on the fatigue behaviour of plain concrete tested in compression, indirect tension and flexure*", **Magazine of Concrete Research**, **UK**, Vol. 53, No. 5, pp 353-355, **2001**.

Corrosion Science ***Sciencedirect***

101- D.W. Berkeley, **H.E.M. Sallam** & H.N. Hashemi "The effect of pH on the mechanism of corrosion and stress corrosion, and degradation of the mechanical properties of AA6061 and Nextel 440 fiber reinforced AA6061 composite", ***Corrosion Science***, Vol. 40, pp 141-153, **1998**.

Materials Science and Engineering A ***Sciencedirect***

102- T. Pacheco, H.N. Hashemi, & **H.E.M. Sallam**, "The effects of matrix and fiber properties on the mechanical behavior and acoustic emission in continuous fiber reinforced metal matrix composites", ***Materials Science and Engineering A***, Vol. 247 , Issues 1-2, pp 88-96, June **1998**.

Journal of Materials Science ***Chapman & Hall, UK***

103- T. Pacheco, H.N. Hashemi, & **H.E.M. Sallam** "A comparison of two nextel 440 fiber reinforced aluminum composites using acoustic emission", ***J. of Materials Science***, Vol. 32, pp 3135-3142, June **1997**.

Engineering Fracture Mechanics ***Sciencedirect***

104- **H.E.M. Sallam** ***Discussion on*** *"Effect of rest time after application of single overload cycle on fatigue life",* ***Engineering Fracture Mechanics***, Vol. 56 No. 6, PP 841-842, **1997**.

Journal of Acoustic Emission ***Acoustic Emission Group, USA***

105- T. Pacheco, H.N. Hashemi, & **H.E.M. Sallam** "Acoustic emission in a Nextel 440 fiber reinforced 6061 Al composite", ***J. of Acoustic Emission***, **USA**, Vol. 14, No. 2, pp 85-95, **1996**.

Fatigue & Fracture of Engng. Materials & Structures ***Blackwell, UK***

106- M.M.I. Hammouda, I. El-Batanony, and **H.E.M. Sallam,** "Finite element simulation of the mechanics of flat fretting fatigue tests", ***Fatigue Fract. Engng Mater. Struct***, **UK**, Vol. 26, No. 7, pp. 627-639, **2003**.

107- M. M. I. Hammouda, S.E. Ahmad, A. S. Sherbini, and **H.E.M. Sallam,** "Deformation behaviour at the tip of physically short fatigue crack due to a single overload", ***Fatigue Fract. Engng Mater. Struct***., Vol. 22,145-151, **1999**.

108- M. M. I. Hammouda, S.E. Ahmad, M. H. Seleem, and **H.E.M. Sallam,** "Fatigue crack growth due to two successive single overloads", ***Fatigue Fract. Engng Mater. Struct.***, **UK**, Vol. 21, pp 1537-1547, **1998**.

109- M.I.Hammouda M.H. Seleem, **H.E.M. Sallam**, and S.E. Ahmad, "Front development of a long fatigue crack during its growth", ***Fatigue Fract. Engng Mater. Struct***., **UK**, Vol. 20, No. 6, pp 849-862, **1997**.

110- **H.E.M. Sallam** **Discussion on** *" Effect of a single peak overload on physically short fatigue crack retardation in an axle-steel",* ***Fatigue Fract. Engng Mater. Struct***., **UK**, Vol. 19 No. 8, PP 1055-1057, **1996**.

111- M.M.I. Hammouda, S.S.E. Ahmad, and **H.E.M. Sallam**, "Correlation of fatigue crack growth by crack tip deformation behaviour", ***Fatigue Fract. Engng. Mater. Struct***., **UK**, Vol. 18, p 93, **1995**.

112- M.M.I. Hammouda and **H.E.M. Sallam, Discussion on** *"*The influence of notch plasticity on short fatigue behaviour*",* ***Fatigue Fract. Engng. Mater. Struct***., **UK**, Vol. 17, p 1493, **1994**.

B- Book Chapter:

1- Sallam, H.E.M. & Abd-Elhady, A.A, 2016. Prediction of crack initiation site in fastener hole of composite laminate. Advanced Composites for Aerospace, Marine, and Land Applications II, (Book Chapter), Springer.

2- Abd-Elhady, A.A., & Sallam, H.E.M. , 2016. Effect of poisson's ratio on stress/strain concentration at circular holes in elastic plates subjected to biaxial loading - three dimensional finite element analyses. Characterization of Minerals, Metals, and Materials (Book Chapter), Springer.

C- International Conference Articles:

1- Saeed Mousa, M. Atta, A.A. Abd-Elhady, A. Abu-Sinna, O. Bafakeeh,and **H.E.M. Sallam**, Mechanical and Bond Behavior of an Advanced Quranic Metal-Matrix Composite Material (QMMC), **MSEC2019-**

2950, Proceedings of the **ASME 2019 14th** International Manufacturing Science and Engineering Conference, **MSEC2019**, June 10-14, 2019, Erie, PA, USA

2- H. El-Emam, M. Mustafic, H. Salim, A. Elsisi, and **H.E.M. Sallam**, Fatigue Life Enhancement for Steel Girders Using Ultra-High Modulus Carbon Fiber-Reinforced Polymer, **Structures Congress 2019**, Orlando, Florida, USA, April 24–27, 2019.

3- M. Mutnbak, M. Shubaili, F. Alsharari, A. Elsisi, H. Salim, and **H.E.M. Sallam**, Investigation of Finger Plate Expansion Devices Behavior, **Structures Congress 2019**, Orlando, Florida, USA, April 24–27, 2019.

4- Saeed Mousa, Amr A. Abd-Elhady, Gap-Yong Kim, and **H.E.M. Sallam**, Fracture behavior of roll bonded Al-brass-Al multilayer composites – Concept of the maximum undamaged defect size (d_{max})**, 22nd European Conference on Fracture - ECF22 26-31. August, 2018,** Belgrade, Serbia.

5- H. El-Emam, H. Salim, A. A. Badawy, M.H. Seleem, and **H.E.M. Sallam**, "Peeling Prevention in Strengthened RC Beams Using End Cover Replacement", Structures Congress 2018, Fort Worth, Texas, USA, April 19–21, 2018. http://www.structurescongress.org

6- A.A. Abd-Elhady, **H.E.M. Sallam** and M.A. Mubaraki, "Failure Analysis of Composite Repaired Pipelines with an Inclined Crack under Static Internal Pressure ", 2nd International Conference on Structural Integrity, **ICSI 2017**, 4-7 September **2017**, Funchal, Madeira, **Portugal**.

7- M.A. Mubaraki, A.A. Abd-Elhady, S.A. Othman and **H.E.M. Sallam**, "Mixed mode fracture behavior of concrete pavement containing RAP - 3D finite element analysis", 2nd International Conference on Structural Integrity, **ICSI 2017**, 4-7 September **2017**, Funchal, Madeira, **Portugal**.

8- A.E. El-Sisi, H. El-Emam, H. Salim, **H.E.M. Sallam** and O.M. El-Hussieny, "Behavior of Single and Double Bolted Staggered Joint in Thick Composite Plates" American Society for Composites *31st* Tech. Conf. & ASTM Committee D30 Meeting Sept. 19-22, Virginia, USA, 2016. http://mech.utah.edu/ASC2016/

9- H. El-Emam, A.E. El-Sisi, H. Salim, M.H. Seleem, and **H.E.M. Sallam**, "Effect of Pre-Strained CFRP Composite Patch on Cracked Steel Plates", American Society for Composites *31st* Tech. Conf. & ASTM Committee D30 Meeting Sept. 19-22, Virginia, USA, 2016. http://mech.utah.edu/ASC2016/

10- H. Salim, A.E. El-Sisi, H. El-Emam, and **H.E.M. Sallam**, "Maximum Clamping Force in Single and Double Lapped Joints ", American Society for Composites *31st* Tech. Conf. & ASTM Committee D30 Meeting Sept. 19-22, Virginia, USA, 2016. http://mech.utah.edu/ASC2016/

11- A.A. Abd-Elhady and **H.E.M. Sallam** "Effect of Poisson's ratio on Stress/Strain Concentration at Circular Holes in Elastic Plates Subjected to Biaxial Loading- Three Dimensional Finite Element Analysis", **TMS 2016 145th *Annual Meeting & Exhibition, February 14-18, 2016 •Nashville, Tennessee, USA***. http://www.tms.org/meetings/annual-16/downloads/finalprogram/AM16_FINAL_FULL.pdf http://onlinelibrary.wiley.com/doi/10.1002/9781119263722.ch6/summary

12- T.M. EL-Bagory, **H.E.M. Sallam,** M.Y.A. Younan, "PVP2015-45651: Validation of linear elastic fracture mechanics in predicting the fracture toughness of polyethylene pipe materials" **PVP 2015 Conference**, ASME, July 19-23, 2015, Boston, USA. http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=2472035&resultClick=3

13- H. M. El Emam, A. E. M. Elsisi, H. A. Salim, **H.E.M. Sallam**, "PVP2015-45233: Cyclic deformation at the tip of inclined cracks in steel plates" **PVP 2015 Conference**, ASME, July 19-23, 2015, Boston, USA. http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=2472163&resultClick=3

14- **H.E.M. Sallam** and A. A. Abd-Elhady, "Prediction of Crack Initiation Site in Fastener Hole of Composite Laminate", TMS 2015 **144th** Annual Meeting & Exhibition MARCH 15-19, Orlando, FL, USA, *Advanced Composites for Aerospace, Marine, and Land Applications II.* http://www.programmaster.org/PM/PM.nsf/ViewSessionSheets?OpenAgent&ParentUNID=6124BB1D0790A22285257D330060D71B, http://onlinelibrary.wiley.com/doi/10.1002/9781119093213.ch14/summary

15- **H.E.M. Sallam** and M. A. Mubaraki, "Evaluation of the fracture energy methods used in fiber reinforced concrete pavements by the maximum undamaged defect size concept" **Presented in TRB 2015 Conference**, *94th Annual Meeting of TRB,* 11-15 January, 2015, *Paper # 15-4297*, Washington, D.C. USA. http://trid.trb.org/view.aspx?id=1338540 , http://amonline.trb.org/15-4297-1.1814002?qr=1, http://trid.trb.org/view.aspx?id=1338540

16- T.M. EL-Bagory, **H.E.M. Sallam,** M.Y.A. Younan, "Evaluation of Fracture Toughness Behavior of Polyethylene Pipe Materials" **PVP 2014 Conference**, ASME, July 20-24, 2014, Anaheim, California, USA. http://www.asmeconferences.org/pvp2014/

17-T.M. EL-Bagory, M.Y.A. Younan, **H.E.M. Sallam,** "Mechanical behavior of welded and unwelded polyethylene pipe materials" **PVP 2013 Conference**, ASME, PVP2013-97743, Paris July 14–18, 2013. http://www.asmeconferences.org/PVP2013/pdfs/FinalProgram.pdf

18- X.X. Zhang, A.M. Abd Elazim, G. Ruiz, **H.E.M. Sallam**, and Z. Chang, "Influence of loading rate on the fracture behavior of steel fiber-reinforced concrete", VIII Int. Conf. on Fracture Mechanics of Concrete and Concrete Structures, FraMCoS-8, Toledo, Spain, 10-14 March 2013. http://www.framcos8.org/frontal/ProgSesion.asp?id=185 , http://www.framcos8.org/frontal/doc/FRAMCOS-8.pdf http://www.framcos.org/FraMCoS-8/p401.pdf

19-T.M. EL-Bagory, M.Y.A. Younan, **H.E.M. Sallam**, and L.A. Abdel-Latif, "Effect of Strain Rate, Thickness, Welding on the J-R Curve for Polyethylene Pipe Materials", **PVP 2012 Conference**, ASME, Toronto, Ontario, **Canada**, July 15-19, 2012. **Paper Number: PVP 2012-78587.** http://www.asmeconferences.org/PVP2012/pdfs/FinalProgram.pdf

20-H.S.J. Al Hazmi, W.H. Al Hazmi, M.A. Shubaili, and **H.E.M. Sallam**, **"**Fracture energy of hybrid polypropylene–steel fiber high strength concrete**", HPSM 2012**, 18-20 June, New Forest, UK, *High Performance Structure and Materials, Vol. VI, pp 309-318, Paper DOI: 10.2495/ HPSM120271,* **https://www.witpress.com/elibrary/wit-transactions-on-the-built-environment/124/23477**

21-**H.E.M. Sallam**, E.B. Matar, A.E.A. El-Sisi, and O. El-Hussaini, "Early growth behavior of short crack emanating from riveted/bolted steel connections", **EUROSTEEL 2011, August 31 - September 2, 2011, Budapest, Hungary.** http://www.eurosteel2011.com/down/program.pdf

22-T.M. EL-Bagory, M.Y.A. Younan, and **H.E.M. Sallam**, " Limit Load Determination and Material Characterization of Cracked Polyethylene Miter Pipe Bends**", Proceedings of the ASME 2011 Pressure Vessels & Piping Division / K-PVP Conference PVP 2011, July 17-21, 2011 Baltimore Maryland, USA, Paper Number: PVP 2011-57587.** http://www.asmeconferences.org/PVP2011/pdfs/FinalProgram.pdf

23-T.M. EL-Bagory, M.Y.A. Younan, **H.E.M. Sallam**, and L.A. Abdel-Latif, "Limit load of pre-cracked polyethylene miter pipe bends subjected to in-plane bending moment", **2010 ASME PVP/K-PVP Conference**, Bellevue, Seattle Washington, **USA, July 18 - 22, 2010.** http://www.asmeconferences.org/PVP2010/pdfs/FinalProgram.pdf

24-T.M. EL-Bagory, M.Y.A. Younan, **H.E.M. Sallam**, and L.A. Abdel-Latif, "Effect of Load Angle on Limit Load of Polyethylene Miter Pipe Bends", **2010 ASME PVP/K-PVP Conference**, Bellevue, Seattle Washington, **USA, July 18 - 22, 2010.** http://www.asmeconferences.org/PVP2010/pdfs/FinalProgram.pdf

25-M.M.I. Hammouda, **H.E.M. Sallam**, and A.S. Fayed, "Cyclic crack tip deformation due to single transition cycles in biaxial loading", **14th European Conf. on Fracture - ECF 14**, Cracow - **Poland**, September **2002.** **http://www.gruppofrattura.it/ocs/index.php/esis/ECF14/schedConf/presentations**. http://www.gruppofrattura.it/ocs/index.php/esis/ECF14/paper/viewFile/6669/5126

26-C. DeLalla, H.N. Hashemi, & **H.E.M. Sallam** "An experimental investigation in high temperature fatigue of MMCs", Recent Advances in Solids/Structures and Application of Metallic Materials, **PVP-Vol. 369**, pp. 133-140, ASME, **USA**, **1997.** http://isbndb.com/d/book/recent_advances_in_solids_structures_and_application_of_meta.html

27-**H.E.M. Sallam** & H.N. Hashemi "Effect of specimen geometry on fatigue crack growth behavior of metal matrix composite", Recent Advances in Solid/Structures and Application of Metallic Materials, **PVP-**Vol. 342/MD-Vol. 72, pp 17-26, ASME, **USA** 1996.

28-**H.E.M. Sallam** "A finite element analysis of fatigue crack arresters in steel structures", Presented at Int. Conf. Engng Against Fatigue, **University of Sheffield**, 16-21 March 1997, **UK**, Engineering Against Fatigue, Edited by J.H. Beynon, M.W. Brown, R. Smith, T. Lindley, and B. Tomkins, A.A. Balkema Publ., pp 415-421, **1999**. http://www.amazon.com/Engineer-Against-Fatigue-J-H-Beynon/dp/9054109696 https://www.researchgate.net/publication/273575716_A_finite_element_analysis_of_fatigue_crack_arresters_in_steel_structures

29-M.M.I.Hammouda, B.M. El-Seheily, **H.E.M. Sallam**, S.E. Ahmad, and M.H. Seleem, "The role of crack tip deformation in fatigue crack growth", Presented at Int. Conf. Engng Against Fatigue, **University of Sheffield**, 16-21 March **1997**, **UK**, Engineering Against Fatigue, Edited by J.H. Beynon, M.W. Brown, R.A. Smith, T.C. Lindley, and B. Tomkins, A.A. Balkema Publ., pp 113-121, **1999**. http://www.amazon.com/Engineer-Against-Fatigue-J-H-Beynon/dp/9054109696 https://www.researchgate.net/publication/273575722_The_role_of_crack_tip_deformation_in_fatigue_crack_growth

30-M. M. I. Hammouda and **H.E.M. Sallam**, "An elastic-plastic finite element simulation of crack tip deformation in fatigue", Presented at **ICF8**, **Kiev**, **1993**, Advances in Fracture Resistance in Materials, **1996**, **Int. congress on Fracture**, Vol. 2, pp 3-10.
http://www.icf-wasi.org/component/jresearch/?view=publication&task=show&id=6358