Curriculum Vitae

1. Personal Data

a/ Name	Dr. Osama Mohammed Elmardi Suleiman Khayal
b/ Place and Date of Birth	Atbara – 1/1/1966
c/ Nationality	Sudanese
d/ Religion	Muslim
e/ Marital Status	Married and Father of three girls
f/ Languages	Arabic and English

2. Present Address

Mechanical Engineering Department, Faculty of Engineering and Technology, Nile Valley University, Atbara, Sudan

P.O. Box 26 – Atbara – Sudan

Telephone No Mobile: +24991919305570

E-mail osamamm64@nilevalley.edu.sd

osamakhayal66@nilevalley.edu.sd

osamamm64@gmail.com

osamamm64@hotmail.com

3. Pre-university Education

Elgharbia Primary School -Atbara (6 years), (1972-1978)

Elamiria intermediate school-Atbara (3years), (1978-1981)

Government high Secondary School- Atbara (3 years), (1982 -1985)

4. Qualifications

Degrees

B.Sc. Mechanical Engineering (2nd class- Division One) Sudan University of Science and Technology, College of Engineering (1998)

M.Sc. Mechanics of Materials - Nile Valley University- Atbara. Sudan (2003)

Ph.D. Mechanics of Materials - Nile Valley University- Atbara. Sudan (2019)

5. Ph.D. Thesis Title

Biaxial Buckling of Thin Laminated Composite Plates.

6.Area of Specialization **Mechanics of Materials**

Oct. 2010-Nov. 2011	Head of the Department of Mechanical Engineering, Faculty of Engineering and Technology, Nile Valley University
March 2006-June 2009	Head of students final engineering projects, Nile Valley University
July 2000-Dec. 2005	Head of procurement committee, Nile Valley University

7.Teaching Experience

Undergraduate Courses

a: 2003-to date

(1) Theory of Elasticity and Plasticity-5th Year B. Civil Engineering

(2) Mechanics of Materials I, II and III -5th Year B. Civil and Mechanical Engineering

(3) Mechanical Engineering Design I, II and III -5th Year B. Mechanical and Production Engineering

(4) Engineering Instrumentation and Control I and II -5th Year B. Mechanical and Production Engineering

(5) Advanced heat and mass transfer -5th Year B. Mechanical and Production Engineering

(6) Hydraulic Machinery Pumps and Turbines I and II -5th Year B. Mechanical and Production Engineering

(7)Graduation Projects 5th Year (Design of Mechanical Elements and Systems)

b:Before 2003 in addition to the above :

(1) Theory of Machines -3rd Year Mechanical and Production Engineering

(2) Applied Mechanics – 4th Year Mechanical and Production Engineering

(3) Machine Tool Design I –3 rd Year Production Engineering

(4) Machine Tool Design II –4th Year Production Engineering

(5) Applied Thermodynamics I-3rd Year Mechanical and Production Engineering

(6) Applied Thermodynamics II- 4th Year Mechanical and Production Engineering.

(7) Applied Thermodynamics III- 5th Year Mechanical and Production Engineering

(8) Fluid Mechanics I -3rd Year Mechanical and Production Engineering

(9) Fluid Mechanics II -4th Year Mechanical and Production Engineering

(10) Fluid Mechanics III -5th Year Mechanical and Production Engineering

(11) Dynamics of Mechanical Systems I- All Bachelor of Engineering (2rd year) Students

(12) Dynamics of Mechanical Systems II - Bachelor of Production and Mechanical Engineering (3rd year) Students.

(13) Instrumentation- Mechanical and Production Engineering Diploma Students.

(14) Automation and Control- Mechanical and Production Engineering Diploma Students.

(15) Engineering Drawing I - All Bachelor and Diploma of Engineering (1st year) Students.

(16) Engineering Drawing II- All Bachelor and Diploma of Engineering (2nd year) Students.

(17) Machine Drawing- Mechanical and Production Engineering Bachelor and Diploma (3rd year) Students

(18) Fundamental of Maintenance- Mechanical and Production Engineering Bachelor and Diploma (5th Year) Students

(19) Mechanical Vibrations - 5th Year Mechanical and Production Engineering

c: Supervision of Undergraduate Projects:

(1) Thermodynamics, Fluid mechanics, Design and Mechanics of Materials(NVU)

(2) Mechanical Engineering Students (University of Kordofan)

(3) Mechanical Engineering Students (Blue Nile University)

d: External Examiner :

(1) B.Sc. Mechanical Engineering- Red Sea University

(2) Diploma Mechanical and Production Engineering- Merowe Technical College

Post – graduate Courses:

(1) Advanced Heat and Mass Transfer- M.Sc. Thermal Power Engineering (NVU)

(2) The Finite Element Method- M.Sc. Solid Mechanics Engineering (NVU)

(3) The Finite Difference Method- M.Sc. Laminated Composite Plates (NVU)

(4) The Dynamic Relaxation Method- M.Sc. Structural Engineering (NVU)

(5) Theories of Elasticity and Plasticity- M.Sc. Structural Engineering (NVU)

(6) Instrumentation and Control Engineering- M.Sc. Control Engineering (RSU)

8. Supervision and Examination of Post-graduate Students:

(1) Awadalla Khdeir Omer Yousif- M.Sc. Thermal Power Plants

(2) Salih Adam Burma- M.Sc. Hydraulic Systems

(3) Alwalied Abdelhadi Ibrahim- Post-Graduate Diploma Pneumatic Systems

9. Internal Examiner at NVU:

(1) Awadalla Khdeir Omer Yousif- M.Sc. Thermal Power Plants (in Partial Fulfillment) 2017

(2) Salih Adam Burma- M.Sc. Hydraulic Systems (in Partial Fulfillment) 2016

(3) Alwalied Abdelhadi Ibrahim- Post-Graduate Diploma Pneumatic Systems (in Partial Fulfillment)March2003

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10. Research Projects:

Finite Differences coupled with Dynamic Relaxation Method in the Analysis of Bending in Composite Laminated Plates

Finite Element Analysis of Buckling in Composite Laminated Plates

Study of Control Systems in Modern Vehicles

Experimental Research Work on Water Current Turbines

Biaxial Buckling of Thin Laminated Composite Plates

Nonlinear Analysis of Rectangular Laminated Plates

Fundamentals of Heat Exchangers

Mechanical Properties of Composite Laminated Plates

Performance and Design Optimization of Solar Powered Stirling Engine Using Genetic Algorithm

Urban Upgrading of Deteriorating Residential Environment, Case Study of Alteleih Residential Area, Atbara, Sudan

Free Vibration of Laminated Plates

The Effect of using Excessive Oil – Gasoline Mixture on the Acceleration of Bajaj Rickshaw Vehicles

Performance Test of Diesel Engines Using Ethanol-Diesel Fuels Blends

Potentiality of Power Production from Gebeit Alsharaf Dam, Red Sea State, Sudan

A Review for Dynamic Scheduling in Manufacturing

Development of Quality Control System for Cement Manufacturing using Software Techniques

Design of Mechanical Elements and Systems

Conventional and Non-Conventional Manufacturing Processes

Fundamentals of Hydraulic and Pneumatic systems

Fundamentals of Pumps and Turbines

11. Professional Membership:

Member of the Almohandes Engineering Forum, Jordan

Member of Mechanical Engineering Forum, Sudan

Member of Researchgate Forum

Member of Academia.edu Forum

Member of Mechanical Engineering Society, Atbara, Sudan

Member of Alkamali Workshops Group, Industrial Area, Atbara, Sudan

Member of Several International Journals in Civil and Mechanical Engineering

Member of www.ektab.com

Member of www.ekutub.com

Member of www.kutubinfo.com

Member of Facebook

Member of nilevalley.academia.edu

Member of bayt.com

Member of noor-publishing.com

Member of www.ijbe.net

Member of www.ijeast.com

Member of ijoaem.org

Member of mail.google.com

Member of scholar.google.com

Member of www.mendeley.com

Member of Figshare.com

Member of www.anchor-publishing.com

Member of orcid.org

Member of www.lap-publishing.com

Member of www.nilevalley.edu.sd

Member of sciencescholar.us

Member of www.grin.com

Member of www.noor-book.com

Member of mechanical-engg.com

12. Publications:

a/ Scientific Papers:

[1] Khalid Muhamadin Mohamed Ahmed Bukkur, M.I. Shukri & Osama Mohammed Elmardi Suleiman, (2018). A Review for Dynamic Scheduling in Manufacturing, Global Journal of Researches in Engineering: J General Engineering, Volume 18, Issue 5, Version 1.0, Online ISSN: 2249-4596 & Print ISSN: 0975-5861, PP. 25 – 37.

[2] Osama Mohammed Elmardi Suleiman Khayal , September (2016). ANALYSIS OF COMPOSITE LAMINATED PLATES, International Journal of Advances in Scientific Research and Engineering (IJASRE), Vol. 02, Issue 08, ISSN: 2454-8006, www.ijasre.net, PP. 24 – 41.
[3] Osama Mohammed Elmardi Suleiman Khayal & Mahmoud Yassin Osman, July (2018). Atbara Water Current Turbine, International Journal of Engineering & Computer Science (IJECS), Vol. 1 No. 1, PP. 30 – 46.
[4] Osama Mohammed Elmardi Suleiman Khayal, Mahmoud Yassin Osman & Tagelsir Hassan, (2018). BIAXIAL BUCKLING OF THIN LAMINATED COMPOSITE PLATES, International Journal of Bridge Engineering (IJBE), Vol. 6, No. 3, PP. 19 – 44.
[5] Osama Mohammed Elmardi Suleiman, (2017). BIBLIOGRAPHY AND LITERATURE REVIEW ON BUCKLING OF LAMINATED PLATES, International Journal of Bridge Engineering (IJBE), Vol. 5, No. 1, PP. 1 – 9.
[6] Mahmoud Yassin Osman & Osama Mohammed Elmardi Suleiman, March (2017). Buckling Analysis of Thin Laminated Composite Plates using Finite Element Method, International Journal of Engineering Research And Advanced Technology (IJERAT), Volume. 03 Issue.3, ISSN:2454 – 6135.
[7] Osama Mohammed Elmardi Suleiman Khayal, October (2016). Convergence and Accuracy of Dynamic Relaxation Technique in Determination of Central Deflection of Composite Rectangular Laminates, International Journal of Scientific Research Engineering & Technology (IJSRET), ISSN 2278 – 0882, Volume 5, Issue 10, PP. 502 – 509.
[8] Osama Mohammed Elmardi Suleiman, August (2016). Deflection and Stress Analysis of Fibrous Composite Laminates, International Journal of Advanced Research in Computer Science and Software Engineering, ISSN: 2277 128X, Volume 6, Issue 8, Available online at: www.ijarcsse.com, PP. 105 – 115.
[9] Osama Mohammed Elmardi Suleiman, April (2017). Deflection of Laminated Composite Plates Using Dynamic Relaxation Method, International Journal of Physical Sciences and Engineering, e-ISSN : 2550-6943, p-ISSN : 2550-6951, Vol. 1 No. 1, PP. 40 – 53.
[10] Murtada Elshiekh, Khalid Eltayeb & Osama Mohammed Elmardi Suleiman, (2018). Development of Quality Control System for Cement Manufacturing using Software Techniques, International Journal of Advanced Engineering and Management, ISSN 2456-8066, Vol. 3, No. 4, PP. 127–133.
[11] Osama Mohammed Elmardi Suleiman, Mahmoud Yassin Osman & Tagelsir Hassan, Received Date: March 27, (2019) Published Date: April 23,(2019). Effect of Boundary Conditions on Buckling Load for Laminated Composite Plates, Global Journal of Engineering Sciences, ISSN: 2641-2039, Volume 2-Issue 1, PP. 1 – 8.

[12] Osama Mohammed Elmardi Suleiman, Mahmoud Yassin Osman & Tagelsir Hassan, Received Date: March 27, (2019) Published Date: April 30,(2019). Effect of Lamination Scheme on Buckling Load for Laminated Composite Decks Plates, Global Journal of Engineering Sciences, ISSN: 2641-2039, Volume 2-Issue 2, PP. 1 – 9.

[13] Osama Mohammed Elmardi Suleiman, Mahmoud Yassin Osman & Tagelsir Hassan, (2019). Effect of Material Anisotropy on Buckling Load for Laminated Composite Decks Plates, International Journal of Engineering & Computer Science, 2(1), PP. 20 – 31.

[14] Osama Mohammed Elmardi Suleiman, Mahmoud Yassin Osman & Tagelsir Hassan, Published Online November 2018 in IJEAST http://www.ijeast.com (2018). EFFECT OF REVERSING LAMINATION SCHEME OF LAYERS ON BUCKLING LOAD FOR LAMINATED COMPOSITE DECKS PLATES, International Journal of Engineering Applied Sciences and Technology, Vol. 3, Issue 7, ISSN No. 2455 – 2143 , PP. 32– 40.

[15] Imad-Eldin Mahmoud Mahdi, Osama Mohammed Elmardi Suleiman & Ahmed F. Algarray, Oct. (2017). Effects of Boundary Conditions on Cross-Ply Laminated Composite Beams, International Journal of Engineering Research And Advanced Technology (IJERAT), E-ISSN : 2454-6135, Vol.3 (10), PP. 52 – 59.

[16] Osama Mohammed Elmardi Suleiman, Ahmed F. A. lgarray&Imad-Eldin Mahmoud Mahdi, Oct. (2017). Free Vibration Analysis of Composite Laminated Beams, International Journal of Engineering Research And Advanced Technology (IJERAT), E-ISSN : 2454-6135, Vol.3 (10), PP. 9 – 25.

[17] Mahmoud Yassin Osman & Osama Mohammed Elmardi Suleiman, April (2017). Free Vibration of Laminated Plates, International Journal of Engineering Research And Advanced Technology (IJERAT), ISSN: 2454-6135, Volume. 03, Issue.4, PP. 31 – 47.

[18] Mahmoud Yassin Osman & Osama Mohammed Elmardi Suleiman, February (2017). Free Vibration Analysis of Laminated Composite Beams using Finite Element Method, International Journal of Engineering Research And Advanced Technology (IJERAT), ISSN: 2454-6135, Volume. 03, Issue.2, PP. 5 – 22.

[19] Dr. Osama Mohammed Elmardi Suleiman Khayal, December (2018). FUNDAMENTALS OF HEAT EXCHANGERS, INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATIONS AND ROBOTICS, ISSN 2320-7345, Vol.6, Issue 12, PP. 1 – 11.

[20] Osama Mohammed Elmardi Suleiman, September (2016). IMPERFECTION OF COMPOSITE LAMINATED PLATES, International Journal of Engineering Research And Advanced Technology (IJERAT), ISSN: 2454-6135, Volume. 02, Issue.9, PP. 6 – 10.

[21] Imad-Eldin Mahmoud Mahdi & Osama Mohammed Elmardi Suleiman, Sept. (2017). Influence

of Fiber Orientation on the Natural Frequencies of Laminated Composite Beams, International Journal of Engineering Research And Advanced Technology (IJERAT), E-ISSN : 2454-6135, Vol.3 (9), PP. 31 – 43.
[22] Imad-Eldin Mahmoud Mahdi & Osama Mohammed Elmardi Suleiman Khayal, (2019). LAMINATION SCHEME AND BOUNDARY CONDITIONS EFFECTS ON THE FREE VIBRATION OF LAMINATED COMPOSITE BEAMS, International Journal of Bridge Engineering (IJBE), Vol. 7, No. 1, PP. 1 – 12.
[23] Mahmoud Yassin Osman & Osama Mohammed Elmardi Suleiman, March (2017). Large Deflection of Composite Beams, International Journal of Engineering Research And Advanced Technology (IJERAT), ISSN: 2454-6135, Volume. 03, Issue.3, PP. 26 – 39.
[24] Osama Mohammed Elmardi Suleiman Khayal, (2016). Linear Analysis of Composite Laminated Plates Using First Order Shear Deformable Theory, Engineering and Technology Journal, ISSN: 2456-3358, Vol. 1, Issue 2, PP. 75 – 86.
[25] Osama Mohammed Elmardi Suleiman, April (2017). Linear Deflection of Laminated Composite Plates using Dynamic Relaxation Method, International Journal of Physical Sciences and Engineering, Vol. 1, No. 1, PP. 54 – 67.
[26] Osama Mohammed Elmardi Suleiman Khayal, February (2017). Literature review on imperfection of composite laminated plates, Journal of Microscopy and Ultrastructure, Published by Elsevier Ltd. This is an open access article under the CC BY-NC-ND license, 5, PP. 119 – 122.
[27] Osama Mohammed Elmardi Suleiman Khayal, Tagelsir Hassan, (2018). MATHEMATICAL MODELLING OF LAMINATED PLATES ON BUCKLING, International Journal of Bridge Engineering (IJBE), Vol. 6, No. 2, PP. 25 – 39.
[28] Osama Mohammed Elmardi Suleiman Khayal, (2017). MECHANICAL PROPERTIES OF COMPOSITE LAMINATED DECKS PLATES, International Journal of Bridge Engineering (IJBE), Vol. 1, No. 1, PP. 01 – 41.
[29] Osama Mohammed Elmardi Suleiman, Oct.(2016). Mechanical Properties of Composite Laminated Plates, International Journal of Advances in Scientific Research and Engineering (IJASRE), ISSN: 2454-8006, Vol. 02, Issue 09, PP. 14 – 24.
[30] Osama Mohammed Elmardi, (2016). NONLINEAR ANALYSIS OF RECTANGULAR LAMINATED DECKS PLATES USING LARGE DEFLECTION THEORY, International Journal of Bridge Engineering (IJBE), Vol. 4, No. 3, PP. 01 – 19.
[31] Osama Mohammed Elmardi, Sept - Oct,(2015). Nonlinear Analysis Of Rectangular Laminated Plates Using Large Deflection Theory, International Journal of Emerging Technology & Research, ISSN (E): 2347-5900 ISSN (P): 2347-6079, Volume 2, Issue 5, PP. 26 – 48.

[32] M. Mardi Osama, (2012). Nonlinear Analysis of Rectangular Laminated Plates Using Large Deflection Theory, مجلة العلوم الهندسية- العددالسادس, PP. 49 – 73.
[33] Abdalazeem Adam, Tagelsir Hassan & Osama Mohammed Elmardi Suleiman, (2018). Performance and Design Optimization of Solar Powered Stirling Engine Using Genetic Algorithm, International Journal of Advanced Engineering and Management, ISSN 2456-8066, Vol. 3, No. 4, PP. 109 – 119.
[34] Midhat Victor Fahmi, Osama Mohammed Elmardi Suleiman, & Tarig Awadalla Hamid , January (2019). PERFORMANCE TEST OF DIESEL ENGINES USING ETHANOL-DIESEL FUELS BLENDS, INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATIONS AND ROBOTICS, ISSN 2320-7345, Vol.7, Issue 1, PP. 11 – 19.
[35] Midhat Victor Fahmi, Osama Mohammed Elmardi Suleiman, & Rajaa Abbas elTaiyeb, January (2019). PERFORMANCE TEST OF DIESEL ENGINES USING JATROPHA-DIESEL FUELS BLENDS, INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATIONS AND ROBOTICS, ISSN 2320-7345, Vol.7, Issue 1, PP. 1 – 10.
[36] Moataz Abdelgadir, Obai Younis Taha & Osama Mohammed Elmardi Suleiman, September (2018). Potentiality of Power Production from Gebeit Alsharaf Dam, Red Sea State, Sudan, Adv. Biotech & Micro, Volume 11, Issue 2, DOI: 10.19080/AIBM.2018.11.555809, PP. 1 – 8.
[37] Osama Mohammed Elmardi Suleiman, Mahmoud Yassin Osman & Tagelsir Hassan, March (2019). Stability of Thin Laminated Decks Plates under Plane Compressive Loading, International Research Journal of Engineering, IT & Scientific Research, ISSN: 2454-2261, https://doi.org/10.21744/irjeis.v5n2.607, Vol. 5 No. 2, PP. 1 – 28.
[38] Osama Mohammed Elmardi Suleiman Khayal, (2016). The Effect of Excessive Oil – Gasoline Mixture on the Acceleration of Bajaj Rickshaw Vehicles, *International Journal Of Advanced Research in Engineering & Management (IJAREM)*, ISSN: 2456-2033, Vol. 02, Issue 04, PP. 1 – 8.
[39] Osama Mohammed Elmardi Suleiman Khayal, (2018). The Effect of using Excessive Oil – Gasoline Mixture on the Acceleration of Bajaj Rickshaw Vehicles, Global Journal of Researches in Engineering: J
General Engineering, Online ISSN: 2249-4596 & Print ISSN: 0975-5861, Volume 18, Issue 4, Version 1.0, PP. 11 – 16.
[40] Imad-Eldin Mahmoud Mahdi & Osama Mohammed Elmardi Suleiman Khayal, (2018). THE EFFECTS OF END CONDITIONS OF CROSS-PLY LAMINATED COMPOSITE BEAMS ON THEIR
NON-DIMENSIONALIZED NATURAL FREQUENCIES, International Journal of Bridge Engineering (IJBE), Vol. 6, No. 1, PP. 63 – 72.

[41] Osama Mohammed Elmardi Suleiman, October (2016). Theories of Composite Plates and Numerical Methods Used on Bending and Buckling of Laminated Plates, International Journal of Engineering Research And Advanced Technology (IJERAT), ISSN: 2454-6135, Volume. 02, Issue.10, PP. 1 – 12.

[42] Fatima Mohammed Hussein, Dr. Asia Abu elgasim Elhassan, Dr. Osama Mohammed Elmardi Suleiman, (2019). Urban Upgrading of Deteriorating Residential Environment, Case Study of Alteleih Residential Area, Atbara, Sudan, Journal of Scientific and Engineering Research, ISSN: 2394-2630 CODEN(USA): JSERBR, 6(4): PP. 175 – 179.

[43] Osama Mohammed Elmardi Suleiman Khayal, (2019). Using Dynamic Relaxation Coupled With Finite Differences in the Analysis of
Laminated Plates , International Journal of Advanced Engineering and Management, ISSN 2456-8066, Vol. 4, No. 2, PP. 25 – 32.

[44] Osama Mohammed Elmardi, September (2015). Validation of Dynamic Relaxation (DR) Method in Rectangular Laminates using Large Deflection Theory, International Journal of Advanced Research in Computer Science and Software Engineering, ISSN: 2277 128X, Available online at: www.ijarcsse.com, Volume 5, Issue 9, PP. 137 – 144.

[45] Osama Mohammed Elmardi Suleiman, Mahmoud Yassin Osman & Tagelsir Hassan, February (2018). Validation of Finite Element Method in the Analysis of Biaxial Buckling of Thin Laminated Plates, International Journal of Engineering Research and Advanced Technology (IJERAT), E-ISSN : 2454-6135, DOI: http://dx.doi.org/10.7324/IJERAT.2018.3188, Volume.4, Issue 2, PP. 29 – 42.

[46] Osama Mohammed Elmardi Suleiman, Mahmoud Yassin Osman & Tagelsir Hassan, (2019). Validity of Finite Element Method: Analysis of Laminated Composite Decks Plates Subjected to in Plane Loading, International Journal of Physics & Mathematics, 2(1), PP. 1-10.

[47] Osama Mohammed Elmardi, (2014). Verification of Dynamic Relaxation (DR) Method in Isotropic, Orthotropic and Laminated Plates using Small Deflection Theory, International Journal of Advanced Science and Technology, http://dx.doi.org/10.14257/ijast.2014.72.04, Vol.72, PP. 37 – 48.

[48] M. Mardi Osama, January (2011). Verification of Dynamic Relaxation Method in the analysis of isotropic, orthotropic and laminated plates using large deflection theory, مجلة جامعة شندي, العدد العاشر, ISSN:1858-571X, PP. 31 – 52.

[49] Osama Mohammed Elmardi Suleiman & Imad-Eldin Mahmoud Mahdi, (2018). VIBRATION OF LAMINATED COMPOSITE
DECKS BEAMS, International Journal of Engineering Applied Sciences and Technology, ISSN No. 2455-2143, Published Online May 2018 in IJEAST (http://www.ijeast.com), Vol. 3, Issue 1, PP. 61 – 66.

b/ Engineering Books in English:

1. Osama Mohammed Elmardi Suleiman Khayal, October (2017). Biaxial Buckling of Thin Laminated Composite Plates, LAP LAMBERT Academic Publishing, Member of Omni Scriptum Publishing Group, Germany, ISBN: 978-613-8-23615-3.
2. Dr. Osama Mohammed Elmardi Suleiman Khayal, October (2017). Buckling of Thin Laminated Plates using Classical Laminated Plate Theory, www.ektab.com , Jordan.
3. Osama Mohammed Elmardi Suleiman, and Mahmoud Yassin Osman, September (2017). Deflection of Rectangular Laminated Composite Plates using Dynamic Relaxation Method , LAP LAMBERT Academic Publishing, Member of Omni Scriptum Publishing Group, Germany, ISBN: 978-3-330-33164-8.
4. Osama Mohammed Elmardi, (2016). Dynamic Relaxation Method, Anchor Academic Publishing, Hamburg, Germany, PDF-eBook-ISBN: 978-3-96067-584-6.
5. Osama Mohammed Elmardi Suleiman, (2015). Further Experimental Research Work on Water Current Turbines, LAP LAMBERT Academic Publishing, Member of Omni Scriptum Publishing Group, Germany, ISBN: 978-3-659-58160-1.
6. Osama Mohammed Elmardi Suleiman, November (2015). Introduction and Literature Review on Buckling of Composite Laminated Plates, LAP LAMBERT Academic Publishing, Member of Omni Scriptum Publishing Group, Germany, ISBN: 978-3-659-86387-5.
7. Osama Mohammed Elmardi Suleiman Khayal, November (2017). Literature Review and Mathematical Modeling on Buckling of Laminated Composite Plates, LAP LAMBERT Academic Publishing, Member of Omni Scriptum Publishing Group, Germany, ISBN: 978-620-2-08074-3.
8. Osama Mohammed Elmardi Suleiman, (2015). Nonlinear Analysis of Rectangular Laminated Plates, LAP LAMBERT Academic Publishing, Member of Omni Scriptum Publishing Group, Germany, ISBN: 978-3-659-76787-6.
9. Osama Mohammed Elmardi Suleiman, May (2018). Questions and Answers in Mechanical Engineering Part One, www.ektab.com , Jordan.
10. Osama Mohammed Elmardi Suleiman, May (2018). Questions and Answers in Mechanical Engineering Part Two, www.ektab.com , Jordan.
11. . Osama Mohammed Elmardi Suleiman, May (2018). Self-Development in Mechanical and Manufacturing Engineering Questions and Answers, www.ektab.com , Jordan.
12. . Osama Mohammed Elmardi Suleiman, April (2017). Solution of Problems in Heat Transfer Transient Conduction or Unsteady Conduction, LAP LAMBERT Academic Publishing, Member of Omni Scriptum Publishing Group, Germany, ISBN: 978-3-659-66822-7.

13. Osama Mohammed Elmardi Suleiman, April (2017). Text Book on Dynamic Relaxation Method, LAP LAMBERT Academic Publishing, Member of Omni Scriptum Publishing Group, Germany, ISBN: 978-3-659-94751-3.
14. Osama Mohammed Elmardi Suleiman, April (2019). Linear and Nonlinear Analysis of Laminated Plates using Small and Large Deflection Theory, Grin Publishing, Germany, ISBN (eBook) 978366891905, ISBN (Book) 9783668919068.

c/ Engineering Books in Arabic:

1. بروفيسور/ محمود يس عثمان و دكتور/ أسامة محمد المرضي سليمان خيال، مارس 2019م. كتاب اهتزازات ميكانيكية (Mechanical Vibrations)،Noor Publishing ، Germany، ISBN: 978-613-9-43200-4.
2. دكتور/ أسامة محمد المرضي سليمان خيال، أكتوبر 2018 م. كتاب ديناميكا حرارية الجزء الأول، Noor Publishing ، Germany، ISBN: 978-620-2-35617-6.
3. دكتور/ أسامة محمد المرضي سليمان خيال، يناير 2019م. كتاب ديناميكا حرارية الجزء الثاني، Noor Publishing ، Germany، ISBN: 978-613-9-43045-1.
4. دكتور/ أسامة محمد المرضي سليمان خيال، يناير 1993م. كتاب عمليات تصنيع (2)، www.ektab.com.
5. د. أسامة محمد المرضي سليمان خيَّال، يناير 2019 م. الاحتراق (Combustion) www.kutubinfo.com.
6. د. أسامة محمد المرضي سليمان خيَّال، مايو 2018 م. الإعجاز العلمي الهندسي في القرآن www.kutubinfo.com .
7. د. أسامة محمد المرضي سليمان خيَّال، مايو 2017 م. ألأقتصاد الهندسي ENGINEERING ECONOMICS www.kutubinfo.com.
8. دكتور/ أسامة محمد المرضي سليمان خيال، يناير 2018م. كتاب التحليل الاقتصادي الهندسي، www.ektab.com.
9. دكتور/ أسامة محمد المرضي سليمان خيال، يناير 2019 م. التوربينات الغازية، www.ektab.com.
10. دكتور/ أسامة محمد المرضي سليمان خيال، مارس 2017م. التوربينات محورية السريان ، www.ektab.com.
11. دكتور/ أسامة محمد المرضي سليمان خيال، ديسمبر 2016م. التوربينة الدفعية أو توربينة عجلة بلتون ، www.ektab.com.
12. د. أسامة محمد المرضي سليمان خيَّال، مايو 1990 م. الديناميكا الحرارية 1. www.kutubinfo.com .
13. دكتور/ أسامة محمد المرضي سليمان خيال، مايو 2018م. أمثال وحكم، www.ektab.com.
14. دكتور/ أسامة محمد المرضي سليمان خيال، أغسطس 2018م. كتاب حلول مسائل في انتقال حرارة وكتلة الجزء الأول، www.ektab.com.
15. دكتور/ أسامة محمد المرضي سليمان خيال، 2019م. انتقال حرارة وكتلة، Noor Publishing Germany, ISBN:

.978-613-9-42793-2

16. د. أسامة محمد المرضي سليمان خيَّال، يناير 2019 م. انحراف العارضات باستخدام طريقة العناصر المحدَّدة، www.kutubinfo.com .

17. د. أسامة محمد المرضي سليمان خيَّال، يناير 2019 م. تحليل الجملونات، www.kutubinfo.com .

18. دكتور/ أسامة محمد المرضي سليمان خيال، 2018 م. تصميم الأنظمة الميكانيكية، www.ektab.com.

19. د. أسامة محمد المرضي سليمان خيَّال، يناير 2019 م. تطبيق طريقة العناصر المحدَّدة في انتقال الحرارة. www.kutubinfo.com .

20. د. أسامة محمد المرضي سليمان خيَّال، يناير 2019 م حل مسائل تحليل الإجهادات باستخدام أسلوب العناصر المحدَّدة. www.kutubinfo.com .

21. دكتور/ أسامة محمد المرضي سليمان خيال، 2016م. حلول مسائل في أجهزة قياس وتحكم، Published by E-Kutub.com .ISBN: 978-1-78058-206-1، ekutub.info@gmail.com.

22. دكتور/ أسامة محمد المرضي سليمان خيال، يناير 2018 م. دراسة نظرية ومختبرية لمضخات الطرد المركزي، www.ektab.com.

23. دكتور/ أسامة محمد المرضي سليمان خيال، أكتوبر 2015 م. كتاب أساسيات الصيانة، w.ektab.com.

24. دكتور/ أسامة محمد المرضي سليمان خيال، أكتوبر 2016 م. كتاب أساسيات المرونة واللدونة ، www.ektab.com.

25. دكتور/ أسامة محمد المرضي سليمان خيال، يونيو 2018 م. كتاب آلات هيدروليكية

، www.ektab.com.

26. دكتور/ أسامة محمد المرضي سليمان خيال، يناير 2019 م. كتاب التصميم بمساعدة الحاسوب ، www.ektab.com.

27. دكتور/ أسامة محمد المرضي سليمان خيال، ديسمبر 2016 م. كتاب التوربينات الغازية ، www.ektab.com.

28. دكتور/ أسامة محمد المرضي سليمان خيال، فبراير 2016 م. كتاب الرسم الهندسي ، www.ektab.com.

29. دكتور/ أسامة محمد المرضي سليمان خيال، ديسمبر 2017 م. كتاب انتقال الحرارة بالغليان والتكثيف، www.ektab.com.

30. دكتور/ أسامة محمد المرضي سليمان خيال، يونيو 2018 م. كتاب انتقال حرارة وكتلة أمثلة محلولة ومسائل إضافية، www.ektab.com.

31. دكتور/ أسامة محمد المرضي سليمان خيال، سبتمبر 2018 م. كتاب انتقال حرارة وكتلة، www.ektab.com.

32. دكتور/ أسامة محمد المرضي سليمان خيال، مارس 2019 م. كتاب اهتزازات ميكانيكية، www.ektab.com.

33. دكتور/ أسامة محمد المرضي سليمان خيال، يونيو 2018 م. كتاب اوتوماتية وهندسة تحكم، www.ektab.com.

34. دكتور/ أسامة محمد المرضي سليمان خيال، مارس 2016 م. كتاب حلول مسائل في أجهزة قياس و تحكم الجزء الأول، www.ektab.com.

35. دكتور/ أسامة محمد المرضي سليمان خيال، يناير 2016 م. كتاب حلول مسائل في أجهزة قياس و تحكم الجزء لثاني، www.ektab.com.

36. دكتور/ أسامة محمد المرضي سليمان خيال، أغسطس 2018 م. كتاب حلول مسائل في المبادلات الحرارية، www.ektab.com.

37. دكتور/ أسامة محمد المرضي سليمان خيال ، ديسمبر 2015 م. كتاب حلول مسائل في انتقال حرارة وكتلة ، www.ektab.com.

38. دكتور/ أسامة محمد المرضي سليمان خيال ، يناير 2016 م. كتاب ديناميكا حرارية الجزء الثاني ، www.ektab.com.

39. دكتور/ أسامة محمد المرضي سليمان خيال ، أكتوبر 2018 م. كتاب ديناميكا حرارية الجزء الأول ، www.ektab.com.

40. دكتور/ أسامة محمد المرضي سليمان خيال، فبراير 2016 م. كـــتاب مضخات السريان نصف القطري والمحوري ، www.ektab.com.

41. د. أسامة محمد المرضي سليمان خيَّال، يناير 2019 م . ماكينات الإزاحة الموجبة

، www.kutubinfo.com .

42. د. أسامة محمد المرضي سليمان خيَّال، يناير 2019 م . محطَّات القدرة البخارية، www.kutubinfo.com .

43. دكتور/ أسامة محمد المرضي سليمان خيال، يناير 1998 م. محطات القدرة الحرارية ، www.ektab.com.

44. د. أسامة محمد المرضي سليمان خيَّال، سبتمبر 2018 م . مذكرة انتقال حرارة برنامج معالجات نظم الإدارة الهندسية modified and corrected version، www.kutubinfo.com .

45. د. أسامة محمد المرضي سليمان خيَّال، يناير 2019 م . مذكرة في تصميم أعمدة نقل القدرة ، www.kutubinfo.com .

46. دكتور/ أسامة محمد المرضي سليمان خيال، إبريل 2019 م. مذكرة محاضرات ميكانيكا المواد الجزء الأول، www.ektab.com.

47. دكتور/ أسامة محمد المرضي سليمان خيال، إبريل 2018 م. مذكرة محاضرات اقتصاد هندسي، www.ektab.com.

48. دكتور/ أسامة محمد المرضي سليمان خيال، يونيو 2018 م. مذكرة محاضرات آلات هيدروليكية، www.ektab.com.

49. دكتور/ أسامة محمد المرضي سليمان خيال، 2018 م. مذكرة محاضرات اوتوماتية وهندسة تحكم، www.ektab.com.

50. د. أسامة محمد المرضي سليمان خيَّال، يناير 2019 م . مذكرة محاضرات تصميم وصلات اللحام

، www.kutubinfo.com .

51. د. أسامة محمد المرضي سليمان خيَّال، 2017 م . مـذكرة محاضـرات ديناميكا حـرارية 1، www.kutubinfo.com .

52. د. أسامة محمد المرضي سليمان خيَّال، 2017 م . مـذكرة محاضـرات ديناميكا حـرارية 2، www.kutubinfo.com .

53. د. أسامة محمد المرضي سليمان خيَّال، فبراير 2019 م . مذكرة محاضرات في الإشعاع الحراري، www.kutubinfo.com .

54. د. أسامة محمد المرضي سليمان خيَّال، فبراير 2019 م . مذكرة محاضرات في الاهتزازات الميكانيكية 1، www.kutubinfo.com .

55. د. أسامة محمد المرضي سليمان خيَّال، فبراير 2019 م . مذكرة محاضرات في الاهتزازات الميكانيكية 2، www.kutubinfo.com .

56. د. أسامة محمد المرضي سليمان خيَّال، فبراير 2019 م . مذكرة محاضرات في التروس العدلة أو القائمة، www.kutubinfo.com .

57. د. أسامة محمد المرضي سليمان خيَّال، فبراير 2019 م . مذكرة محاضرات في قوى التروس، www.kutubinfo.com .

58. د. أسامة محمد المرضي سليمان خيَّال، إبريل 2019 م . مذكرة محاضرات ميكانيكا المواد الجزء الثالث، www.kutubinfo.com .

59. د. أسامة محمد المرضي سليمان خيَّال، إبريل 2019 م . مذكرة محاضرات ميكانيكا المواد الجزء الثاني، www.kutubinfo.com .

60. د. أسامة محمد المرضي سليمان خيَّال، يونيو 2018 م . مذكرة مدخل لانتقال حرارة وكتلة، www.kutubinfo.com .

61. دكتور/ أسامة محمد المرضي سليمان خيال، إبريل 2019 م. ميكانيكا المواد الجزء الأول، www.ektab.com.

62. دكتور/ أسامة محمد المرضي سليمان خيال، إبريل 2019 م. ميكانيكا المواد الجزء الثاني، www.ektab.com.