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Osama Mohammed Elmardi Suleiman Khayal, Master of Engineering in Composite Materials Structural Engineering

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Education

Thesis

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Osama Mohammed Elmardi Suleiman Khayal, marwan tagelsir mohammed alatta, mohammed attaelmannan mohammed haroun, tarig bashir suleiman mohammed: *maintenance and operation of two stages compressor in thermal machines laboratory and executing experimental tests on it* المرحتين نو للهواء ضاغط جهاز: maintenance and operation of two stages compressor in thermal machines laboratory and executing experimental tests on it. 01/2001, Degree: diploma of mechanical engineering (power option), Supervisor: Osama Mohammed Elmardi Suleiman Khayal, DOI:10.13140/RG.2.2.22240.07685

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Osama Mohammed Elmardi Suleiman Khayal, esameldin ali eltom, abdellatif ahmed abbas, elfadil omer elhussein, mohammed Abdelrazig taha: *رباعية لدورة اختيار قاعدة وتنفيذ تصميم*. 01/1997, Degree: diploma in mechanical engineering {power option}, Supervisor: Osama Mohammed Elmardi Suleiman Khayal, DOI:10.13140/RG.2.2.35498.82881

Osama Mohammed, Elmardi Suleiman, B Sc Sust, Nvu, osama mohammed elmardi suleiman khayal, mahmoud yassin osman: *Nonlinear Analysis of Rectangular Laminated Plates*. 01/1993, Degree: master of engineering in mechanical engineering, Supervisor: professor mahmoud yassin osman, DOI:10.13140/RG.2.2.33372.39042

Research Experience

Apr 2016 – present **Professor (Assistant)**

Nile Valley University, faculty of engineering and technology
Atbara, Sudan

27 years experience in teaching mechanical, civil and production engineering subjects

Jan 1990 – May 2017 **Professor (Assistant) and head of mechanical engineering department**

Nile Valley University, Faculty of Engineering and Technology, Mechanical

Engineering Department
, Sudan

Statistics

RG Score 14.46
Publications 912
Reads 165,159
Citations 525

Awards & Grants

Sep 2017 Award: Chair/Speakers for the World Education Day-2017(WED-2017), Dalian, China

Jan 2011 Award: professor assistant

Jan 2003 Award: lecturer

Jan 2003 Award: master of mechanical engineering

Feb 1998 Award: bachelor of engineering in mechanical engineering certificate (sudan university of science and technology - college of engineering, Khartoum, Sudan) detailed certificate

Feb 1998 Award: post graduate diploma certificate(sudan university of science and technology - college of engineering, Khartoum, Sudan) certificate

Feb 1998 Award: post graduate diploma certificate(sudan university of science and technology - college of engineering, Khartoum, Sudan) detailed certificate

Feb 1998 Award: bachelor of engineering in mechanical engineering certificate (sudan university of science and technology - college of engineering, Khartoum, Sudan) certificate

Jan 1998 Award: assistant teaching lecturer

Mar 1990 Award: diploma in mechanical engineering power option (mechanical engineering college Atbara/Sudan)

Skills & Activities

Skills Elasticity, Stress Analysis, Mechanical Testing, Materials, Mechanical Properties, Mechatronics, Mechanics of Materials, Solid Mechanics, Structural Analysis, Computational Mechanics, Design Engineering, Mechanical Behavior of Materials, Fracture Mechanics, Applied Mechanics, Nonlinear Analysis, Structural Dynamics, Computational Structural Mechanics, Failure Analysis,

Computational Solid Mechanics, Structural Stability, Damage Mechanics, Experimental Mechanics, Computer-Aided Engineering, Micromechanics, Smart Materials, Plasticity, Micromechanics of Materials, Computational Engineering, Analytical Mechanics, Compression, Dynamics, Dynamical Systems, Laminated Composites, Mechanical Engineering, Applied Thermodynamics, Fluid Mechanics, Control Systems Engineering, Finite Element Method, Civil Engineering, Boundary Condition, Damping, Nonlinear, Lamins, Composite Material, Composites, Numerical Methods, Methods, Finite Difference, Finite Difference Method, Fiber, Heat & Mass Transfer, Boiling Heat Transfer, Thermal Power Plants, Heat Transfer, Finite Element Analysis, Finite Element Modeling, fundamentals of elasticity and plasticity, Control and Instrumentation, steam power plants, Gas Power Plants, combined gas and steam power plants, Nuclear Power Plants, Engineering Economics, Operational Research, organization of engineering projects, boiling and condensation, Machinery Maintenance, Maintenance Management, Maintenance Planning, Mechanical Vibrations, Ergonomics, Mechanical Engineering Design, design of mechanical elements, design of mechanical systems, machine tool design, Engineering Psychology, Computer-Aided Design, Computer-Aided Manufacturing, Cad-Cam, AutoCAD Mechanical, Engineering, Applied and Computational Mathematics, Engineering Mathematics, Dynamic Relaxation Method, Manufacturing Systems, Advanced Manufacturing Technology, Manufacturing Engineering, Engineering Thermodynamics, Computational Thermodynamics, Applied Fluid Mechanics, Computational Fluid Mechanics, Gas Turbines, Water Turbines, Wind Turbines, Heat Pumps, Water Pumps, Refrigeration & Air Conditioning, Tribology, Friction, Corrosion Engineering, Corrosion Protection, Metal Casting, Welding, Properties of Materials, FE Analysis, Pedagogical Engineering, Pedagogical psychology, Metallic Alloys, Linear Position Transducers, Pressure Transducers, English for Science and Technology, technical and economical feasibility studies

Languages Arabic, English

Scientific Memberships Almohandes Forum
Sudanese Engineering Forum
Sudanese Mechanical Engineering Forum
Arab Engineering Forum
Sudanese Engineering Society
Faculty of Engineering and Technology, Atbara Mechanical Engineering Society
Small Industries Trade Union , Atbara, Sudan

Interests ENGINEERING PAPERS AND BOOK WRITING BOTH IN ARABIC AND ENGLISH LANGUAGE
PREPARATION OF TECHNICAL AND ECONOMICAL FEASIBILITY STUDIES FOR CONSTRUCTION OF MECHANICAL AND PRODUCTION WORKSHOPS

Publication Highlights

osama mohammed elmardi suleiman khayal: *NONLINEAR ANALYSIS OF RECTANGULAR LAMINATED DECKS PLATES USING LARGE DEFLECTION THEORY*. Journal of Bridge Engineering 01/2016; 4(3):1 - 19.

Osama Mohammed Elmardi Suleiman Khayal, mahmoud yassin osman: *Free Vibration Analysis of Laminated Composite Beams using Finite Element Method*.

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Books

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Osama Mohammed Elmardi Suleiman Khayal: *thermo - dynamics 2* By assistant professor osama mohammed elmardi. 04/2017;

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Osama Mohammed Elmardi Suleiman Khayal: *Solution of Problems in Heat Transfer Transient Conduction or Unsteady Conduction*. 02/2017;

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- Osama Mohammed Elmardi Suleiman Khayal: *Deflection of Rectangular Composite Laminated Plates under Static Lateral Uniformly Distributed load*. first edition 10/2016;
- Osama Mohammed Elmardi Suleiman Khayal: *Buckling of Composite Laminated Plates Introduction and Literature Review*. first edition 10/2016;
- Osama Mohammed Elmardi Suleiman Khayal: *Buckling of Composite Laminated Plates Introduction and Literature Review*. 10/2016;
- Osama Mohammed Elmardi Suleiman Khayal: *Dynamic Relaxation Method Theoretical Analysis, Solved Examples and Computer Programming*. first edition edited by Bibliographical Information of the German National Library, 10/2016; Anchor Academic Publishing., ISBN: PDF-eBook-ISBN: 978-3-96067-584-6
- Osama Mohammed Elmardi Suleiman: *Dynamic Relaxation Method. Theoretical Analysis, Solved Examples and Computer Programming*. 09/2016; anchor academic publishing., ISBN: 978-3-96067-584-6
- Osama Mohammed Elmardi Suleiman: *Text Book On Dynamic Relaxation Method Theoretical Analysis, Solved Examples And Computer Programming*. first 09/2016; lap lambert academic publishing., ISBN: 978-3-659-94751-3
- Osama Mohammed Elmardi Suleiman: *matters solutions in measuring and control devices*. 09/2016; www.e-kutub.com., ISBN: 978-1-78058-206-1
- Osama Mohammed Elmardi Suleiman: *اثنائي انجزء وتحكم قياس أجهزة في مسائل مهيل كتاب*. 09/2016; www.e-kutub.com., ISBN: www.kutub.info-19684
- Osama Mohammed Elmardi Suleiman: *Introduction and Literature Review on Buckling of Composite Laminated Plates*. 09/2016; lap lambert academic publishing., ISBN: 978-3-659-86387-5
- Osama Mohammed Elmardi Suleiman: *Nonlinear Analysis of Rectangular Laminated Plates*. 09/2016; lap lambert academic publishing., ISBN: 978-3-659-76787-6
- Osama Mohammed Elmardi Suleiman Khayal: *Text Book On Dynamic Relaxation Method*. first edition edited by omniscryptum, 09/2016; LAP LAMBERT Academic Publisher., ISBN: 978-3-659-94751-3
- Osama Mohammed Elmardi Suleiman: *Further Experimental Research Work on Water Current Turbines*. 09/2016; lap lambert academic publishing., ISBN: 978-3-659-58160-1
- Osama Mohammed Elmardi Suleiman: *Nonlinear Analysis of Rectangular Laminated Plates*. 09/2016; lap lambert academic publishing., ISBN: 978-3-659-76787-6
- Osama Mohammed Elmardi Suleiman: *Text Book on Dynamic Relaxation Method*. 09/2016; lap lambert academic publishing., ISBN: 978-3-659-94751-3
- Osama Mohammed Elmardi Suleiman: *thermodynamics (1) (merged)*. 08/2016;
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