



Farouk Omar Hamdoon

فاروق عمر حمدون

Professor

ACADEMIC TITLES

2024-07-30 Professor

TEACHING EXPERIENCE

Professor

Wasit University

2005-12 - Present

COURSES

• Mechanical Vibrations (ME0055)

ADMINISTRATIVE POSITIONS

2015-01-01 - 2016-01-01 Undergraduate studies coordinator

2016-01-01 - 2020-02-02 Postgraduate studies coordinator

PUBLICATIONS (19)

- Mechanical strength and vibration-Damping characteristics of 2D and 3D glass woven composites with graphene nanoparticles**
Journal of Composite Materials, 00219983251395396, 2025 | 2025
- Improving The Mechanical and Electrical Performance Of Composite Laminates By Including Nano-particles**
Wasit Journal of Engineering Sciences 13 (2), 14-36, 2025 | 2025
- Compressive properties of a modified re-entrant chiral auxetic structure (MRCA) under uniaxial quasi-static loading**
Smart Materials and Structures 33 (5), 055028, 2024 | 2024 | Cited: 37
- Numerical investigations of two vibrating cylinders in uniform flow using overset mesh**
Curved and Layered Structures 10 (1), 20220208, 2023 | 2023 | Cited: 3
- Effect of fluctuated flow on horizontal axis wind turbines at various tip speed ratios**
AIP Conference Proceedings 2665 (1), 040008, 2023 | 2023
- An overset mesh approach for a vibrating cylinder in uniform flow**
Curved Layer Struct 9 (1), 396-402, 2022 | 2022 | Cited: 5
- Estimation the Natural Frequencies of a Cracked Shaft Based on Finite Element Modeling and Artificial Neural Network**
international journal on advanced science engineering information technology 10, 2020 | 2020 | Cited: 18
- A new audio signalbased methodology for fault detection in gears**
J Mech Eng Res Dev 43, 12-21, 2020 | 2020 | Cited: 1
- A new audio signal-based methodology for fault detection in gears**
Journal of Mechanical Engineering Research and Developments | 2020
- Transient response of rotor system under different startup speed profiles**
Journal of Mechanical Engineering Research and Developments | 2019

CONTACT

Phone: 07819924188

Email: fomar@uowasit.edu.iq

fomar@uowasit.edu.iq

EDUCATION

دكتوراه (19-10-2014)

Applied Mechanics

University of Technology

RESEARCH METRICS

h-index (Scopus) 3

h-index (GS) 5

Citations (Scopus) 65

Citations (GS) 91

Documents (Scopus) 11

Documents (GS) 17

PATENTS

• Development of an electric elevator using tanks and counterweights

RESEARCH INTERESTS

• Dynamics of structures, Dynamics of rotating machines, Composite materials



11. **Influence of powder mixed EDM on the surface hardness of die steel**
IOP Conference Series: Materials Science and Engineering 518 (3), 032030, 2019 | 2019 | Cited: 8
12. **Simulation of active suspension system for half vehicle model under different road profile**
University of Thi-Qar Journal for Engineering Sciences 10 (1), 13-17, 2019 | 2019 | Cited: 3
13. **Effect of temperature gradients on critical speeds of rotating shafts**
2018 International Conference on Advance of Sustainable Engineering and its ..., 2018 | 2018 | Cited: 2
14. **Aeroelastic behavior of a wind turbine blade by a fluid-structure interaction analysis**
Al-Khwarizmi Engineering Journal 9 (3), 15-25, 2013 | 2013 | Cited: 4
15. **Transient response of rotor system under different startup speed profiles**
Education 2015, 2012 | 2012 | Cited: 4
16. **Crack Identification in a Cantilever Beam with an Open Crack**
Journal of Engineering 16 (2), 2010 | 2010
17. **Application of a Finite Element Package for Modeling Rotating Machinery Vibrations**
uotechnology. edu. iq, 2009 | 2009 | Cited: 6
18. **Time Domain Simulation of Wind Shear and Tower Shadow in Wind Turbines**
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19. **Vibration Based-Crack Detection in Simplified Wind Turbine Blades Using Artificial Neural Networks**
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