DR. VAISHALI

https://orcid.org/0000-0002-3503-0977

Employment (1)

GOVERNMENT ENGINEERING COLLEGE SAMASTIPUR: SAMASTIPUR, BIHAR, IN

2023-04-13 to present | Assistant Professor (Department of Mechanical Engineering)

Employment

Source: DR. VAISHALI

Education and qualifications (3)

National Institute of Technology Silchar: Silchar, Assam, IN

2018-06-18 to 2022-11-04 | PHD RESEARCH SCHOLAR (MECHANICAL ENGINEERING)

Qualification

Source: DR. VAISHALI

National Institute of Technology Silchar: Silchar, Assam, IN

2016 to 2018 | M.Tech (Materials and Manufacturing Technology)

Education

Source: DR. VAISHALI

Noida Institute of Engineering and Technology: Greater Noida, Uttar Pradesh, IN

2010 to 2014 | B.Tech (Mechanical Engineering)

Education

Source: DR. VAISHALI

Works (18 of 18)

Moment Independent Sensitivity Analysis of Porous Functionally Graded Plates Subjected to Free Vibrations

Vibration Engineering and Technology of Machinery, Volume II

2024 | book-chapter

DOI: 10.1007/978-981-99-8986-7_21

Part of ISBN: 9789819989850

Part of ISBN: 9789819989867

Part of ISSN: 2211-0984

Part of ISSN: 2211-0992

Source: DR. VAISHALI

Free Vibration of Bio-inspired Composite Circular Plates —An Annual Ring Model

Lecture Notes in Civil Engineering

2023-08-23 | book-chapter

DOI: 10.1007/978-981-19-9394-7_17

Part of ISBN: 9789811993930

Part of ISBN: 9789811993947

Part of ISSN: 2366-2557

Part of ISSN: 2366-2565

Source: DR. VAISHALI

On machine learning assisted data-driven bridging of FSDT and HOZT for high-fidelity uncertainty quantification of laminated composite and sandwich plates

Composite Structures

2023-01 | journal-article

DOI: 10.1016/j.compstruct.2022.116276

Part of ISSN: 0263-8223

Source: DR. VAISHALI

Effect of Relative Thickness on Natural Frequency Analysis of Hybrid Hyperbolic Paraboloid Shells

Lecture Notes in Mechanical Engineering

2023 | book-chapter

DOI: 10.1007/978-981-19-3266-3_27

Part of ISBN: 9789811932656

Part of ISBN: 9789811932663

Part of ISSN: 2195-4356

Part of ISSN: 2195-4364

Source: DR. VAISHALI

Comparison of multiple surrogate models probing uncertainty in natural frequency of hybrid functionally graded sandwich cylindrical shells

Journal of Mechanics of Materials and Structures

2022-12-10 | journal-article

DOI: 10.2140/jomms.2022.17.97

Part of ISSN: 1559-3959

Part of ISSN: 1559-3959

Source: DR. VAISHALI

Stochastic Free Vibration and Impact Responses of Functionally Graded Plates: A Support Vector Machine Learning Model Approach

Journal of Vibration Engineering & Technologies

2022-10-14 | journal-article

DOI: 10.1007/s42417-022-00721-7

Part of ISSN: 2523-3920

Part of ISSN: 2523-3939

Source: DR. VAISHALI

Metamodeling-assisted probabilistic first ply failure analysis of laminated composite plates—RS-HDMR- and GPR-based approach

Journal of the Brazilian Society of Mechanical Sciences and Engineering

2022-08 | journal-article

DOI: 10.1007/s40430-022-03674-w

Part of ISSN: 1678-5878

Part of ISSN: 1806-3691

Source: DR. VAISHALI

Sensitivity Analysis of Random Frequency Responses of Hybrid Multi-functionally Graded Sandwich Shells

Journal of Vibration Engineering & Technologies

2022-07-19 | journal-article

DOI: 10.1007/s42417-022-00612-x

Part of ISSN: 2523-3920

Part of ISSN: 2523-3939

Source: DR. VAISHALI

Effect of Thickness on Probabilistic Free Vibration of Hybrid FG-Sandwich Cylindrical Shells

2022 | book-chapter

DOI: 10.1007/978-981-16-6738-1_42

Source: Crossref

Radial Basis Function-Based Uncertain Low-Velocity Impact Behavior Analysis of Functionally Graded Plates

Machine Learning Applied to Composite Materials

2022 | book-chapter

DOI: 10.1007/978-981-19-6278-3_4

Part of ISBN: 9789811962776

Part of ISBN: 9789811962783

Part of ISSN: 2662-1819

Part of ISSN: 2662-1827

Source: DR. VAISHALI

Probabilistic Oblique Impact Analysis of Functionally Graded Plates – A Multivariate Adaptive Regression Splines Approach

European Journal of Computational Mechanics

2021-10-09 | journal-article

DOI: 10.13052/ejcm2642-2085.30234

Part of ISSN: 2642-2050

Part of ISSN: 2642-2085

Source: DR. VAISHALI

Dynamic Sensitivity Analysis of Random Impact Behaviour of Hybrid Cylindrical Shells

2021 | book-chapter

DOI: 10.1007/978-981-33-4550-8_11

Source: Crossref

Support Vector Model Based Thermal Uncertainty on Stochastic Natural Frequency of Functionally Graded Cylindrical Shells

Lecture Notes in Civil Engineering

2021 | book-chapter

DOI: 10.1007/978-981-15-8138-0_50

Part of ISBN: 9789811581373

Part of ISBN: 9789811581380

Part of ISSN: 2366-2557

Part of ISSN: 2366-2565

Source: DR. VAISHALI

Temperature-Dependent Random Frequency of Functionally Graded Spherical shells—A PCE Approach

Lecture Notes in Mechanical Engineering

2021 | book-chapter

DOI: 10.1007/978-981-15-7711-6_51

Part of ISBN: 9789811577109

Part of ISBN: 9789811577116

Part of ISSN: 2195-4356

Part of ISSN: 2195-4364

Source:DR. VAISHALI

Probing the multi-physical probabilistic dynamics of a novel functional class of hybrid composite shells

Composite Structures

2020-11 | journal-article

DOI: 10.1016/j.compstruct.2020.113294

Part of ISSN: 0263-8223

Source:DR. VAISHALI

Machine learning based stochastic dynamic analysis of functionally graded shells

Composite Structures

2020-04 | journal-article

DOI: 10.1016/j.compstruct.2020.111870

Part of ISSN: 0263-8223

Source:DR. VAISHALI

Effect of Skewness on Random Frequency Responses of Sandwich Plates

Recent Advances in Theoretical, Applied, Computational and Experimental Mechanics

2020 | book-chapter

DOI: 10.1007/978-981-15-1189-9_2

Part of ISBN: 9789811511882

Part of ISBN: 9789811511899

Part of ISSN: 2195-4356

Part of ISSN: 2195-4364

Source:DR. VAISHALI

Stochastic natural frequency analysis of skewed sandwich plates

Engineering Computations

2019-08-12 | journal-article

Source:DR. VAISHALI

Peer review (2)

• review activity for **Proceedings of the Institution of Mechanical Engineers. (4)**

• review activity for **Proceedings of the Institution of Mechanical Engineers. (2)**

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Peer review (2)

• review activity for **Proceedings of the Institution of Mechanical Engineers. (4)**