

Wei Fan

List of Publications by Year in descending order

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25
papers

262
citations

1040056

9
h-index

996975

15
g-index

25
all docs

25
docs citations

25
times ranked

120
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic modeling, simulation and experiment of power transmission belt drives: A systematic review. <i>Journal of Sound and Vibration</i> , 2021, 491, 115759.	3.9	25
2	A three-dimensional modal theory-based Timoshenko finite length beam model for train-track dynamic analysis. <i>Journal of Sound and Vibration</i> , 2020, 479, 115363.	3.9	23
3	Dynamic modeling and output error analysis of an imperfect hemispherical shell resonator. <i>Journal of Sound and Vibration</i> , 2021, 498, 115964.	3.9	23
4	An Accurate Singularity-Free Formulation of a Three-Dimensional Curved Euler-Bernoulli Beam for Flexible Multibody Dynamic Analysis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016, 138, .	1.6	18
5	An Efficient Galerkin Averaging-Incremental Harmonic Balance Method Based on the Fast Fourier Transform and Tensor Contraction. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2020, 142, .	1.6	18
6	An Accurate and Robust Geometrically Exact Curved Beam Formulation for Multibody Dynamic Analysis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2018, 140, .	1.6	17
7	A New Singularity-Free Formulation of a Three-Dimensional Euler-Bernoulli Beam Using Euler Parameters. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	1.2	15
8	Dynamic Analysis of an Elevator Traveling Cable Using a Singularity-Free Beam Formulation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	13
9	Comparison Between the Incremental Harmonic Balance Method and Alternating Frequency/Time-Domain Method. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2021, 143, .	1.6	13
10	A New Three-Dimensional Moving Timoshenko Beam Element for Moving Load Problem Analysis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2020, 142, .	1.6	10
11	Dynamic Analysis of Power Transmission Lines With Ice-Shedding Using an Efficient Absolute Nodal Coordinate Beam Formulation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2021, 16, .	1.2	10
12	An efficient semi-analytical formulation for the Lamb-like waves in layered waveguides based on global discretization. <i>Computers and Structures</i> , 2021, 249, 106514.	4.4	9
13	On a comparative study of an accurate spatial discretization method for one-dimensional continuous systems. <i>Journal of Sound and Vibration</i> , 2017, 399, 257-284.	3.9	8
14	An efficient Galerkin averaging-incremental harmonic balance method for nonlinear dynamic analysis of rigid multibody systems governed by differential-algebraic equations. <i>Nonlinear Dynamics</i> , 2021, 105, 475-498.	5.2	8
15	Vibration analysis and band-gap characteristics of periodic multi-span power transmission line systems. <i>Engineering Structures</i> , 2021, 238, 111669.	5.3	8
16	Multi-objective design optimization of an engine accessory drive system with a robustness analysis. <i>Applied Mathematical Modelling</i> , 2020, 77, 1564-1581.	4.2	7
17	An accurate singularity-free geometrically exact beam formulation using Euler parameters. <i>Nonlinear Dynamics</i> , 2018, 91, 1095-1112.	5.2	6
18	Stick-slip oscillations of an engine front-end accessory drive system with a mechanical tensioner. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2021, 235, 400-416.	1.9	6

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19	An efficient dynamic formulation for the vibration analysis of a multi-span power transmission line excited by a moving deicing robot. <i>Applied Mathematical Modelling</i> , 2022, 103, 619-635.	4.2	6
20	Three-dimensional dynamic modeling and analysis of moving elevator traveling cables. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2017, 231, 167-180.	0.8	5
21	Study on the influence of lateral and local rail deformation on the train-track interaction dynamics. <i>Vehicle System Dynamics</i> , 2022, 60, 670-698.	3.7	5
22	Semi-analytical solution to the steady-state periodic dynamic response of an infinite beam carrying a moving vehicle. <i>International Journal of Mechanical Sciences</i> , 2022, 226, 107409.	6.7	5
23	On the Approximation of the Full Mass Matrix in the Rotational-Coordinate-Based Beam Formulation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020, 15, .	1.2	2
24	An efficient recursive rotational-coordinate-based formulation of a planar Euler-Bernoulli beam. <i>Multibody System Dynamics</i> , 2021, 52, 211-227.	2.7	1
25	Steady-state and start-up transient responses of a belt-driven starter generator system for micro-hybrid electric vehicles. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 2844-2860.	2.6	1