Firooz Bakhtiari-Nejad

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nonlinear vibrations of FGM rectangular plates in thermal environments. Nonlinear Dynamics, 2011, 66, 251-270.	5.2	120
2	Non-linear modal analysis of a rotating beam. International Journal of Non-Linear Mechanics, 2011, 46, 877-897.	2.6	69
3	Structural finite element model updating using transfer function data. Computers and Structures, 2010, 88, 54-64.	4.4	66
4	A geometrically exact approach to the overall dynamics of elastic rotating blades—part 1: linear modal properties. Nonlinear Dynamics, 2012, 70, 659-675.	5.2	62
5	Sliding mode control of drum water level in an industrial boiler unit with time varying parameters: A comparison with Hâ^ž-robust control approach. Journal of Process Control, 2012, 22, 1844-1855.	3.3	52
6	Finite Element Model Updating Using Frequency Response Function of Incomplete Strain Data. AIAA Journal, 2010, 48, 1420-1433.	2.6	46
7	Nonlinear free and forced vibrations of fractional modeled viscoelastic FGM micro-beam. Applied Mathematical Modelling, 2021, 92, 297-314.	4.2	44
8	Theoretical and experimental structural damage diagnosis method using natural frequencies through an improved sensitivity equation. International Journal of Mechanical Sciences, 2013, 70, 79-89.	6.7	42
9	Nonlinear free vibration analysis of prestressed circular cylindrical shells on the Winkler/Pasternak foundation. Thin-Walled Structures, 2012, 53, 26-39.	5.3	40
10	Nonlinear multivariable control and performance analysis of an air-handling unit. Energy and Buildings, 2011, 43, 805-813.	6.7	38
11	Stability improvement and regenerative chatter suppression in nonlinear milling process via tunable vibration absorber. Journal of Sound and Vibration, 2012, 331, 4668-4690.	3.9	37
12	Free in-plane vibration analysis of rotating rectangular orthotropic cantilever plates. International Journal of Mechanical Sciences, 2016, 115-116, 438-456.	6.7	36
13	Robust control of an industrial boiler system; a comparison between two approaches: Sliding mode control & technique. Energy Conversion and Management, 2009, 50, 1401-1410.	9.2	35
14	Nonlinear vibration analysis of isotropic cantilever plate with viscoelastic laminate. Nonlinear Dynamics, 2009, 56, 325-356.	5.2	35
15	Nonlinear behaviour of the regenerative chatter in turning process with a worn tool: Forced oscillation and stability analysis. Mechanism and Machine Theory, 2010, 45, 1050-1066.	4.5	32
16	A geometrically exact approach to the overall dynamics of elastic rotating blades—part 2: flapping nonlinear normal modes. Nonlinear Dynamics, 2012, 70, 2279-2301.	5.2	32
17	Analytical estimation of natural frequencies and mode shapes of a beam having two cracks. International Journal of Mechanical Sciences, 2014, 78, 193-202.	6.7	30
18	Preload effect on nonlinear dynamic behavior of a rigid rotor supported by noncircular gas-lubricated journal bearing systems. Nonlinear Dynamics, 2010, 60, 231-253.	5.2	28

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19	Nonlinear vibration of fractional viscoelastic micro-beams. International Journal of Non-Linear Mechanics, 2021, 137, 103811.	2.6	28
20	Nonlinear dynamic stability analysis of the coupled axial-torsional motion of the rotary drilling considering the effect of axial rigid-body dynamics. International Journal of Non-Linear Mechanics, 2017, 88, 85-96.	2.6	27
21	Multivariable robust control of an air-handling unit: A comparison between pole-placement and Hâ^ž controllers. Energy Conversion and Management, 2012, 55, 136-148.	9.2	25
22	Size-dependent dynamic modeling and vibration analysis of MEMS/NEMS-based nanomechanical beam based on the nonlocal elasticity theory. Acta Mechanica, 2016, 227, 1363-1379.	2.1	25
23	Improving boiler unit performance using an optimum robust minimum-order observer. Energy Conversion and Management, 2011, 52, 1728-1740.	9.2	23
24	Quasi-linear sensitivity-based structural model updating using experimental transfer functions. Structural Health Monitoring, 2012, 11, 656-670.	7.5	22
25	Cold start-up condition model for heat recovery steam generators. Applied Thermal Engineering, 2014, 65, 502-512.	6.0	22
26	Development of neural fractional order PID controller with emulator. ISA Transactions, 2020, 106, 293-302.	5.7	22
27	On the secondary resonance of a MEMS resonator: A conceptual study based on shooting and perturbation methods. International Journal of Non-Linear Mechanics, 2016, 82, 59-68.	2.6	21
28	Nonlinear dynamics of a functionally graded piezoelectric micro-resonator in the vicinity of the primary resonance. JVC/Journal of Vibration and Control, 2017, 23, 400-413.	2.6	21
29	Numerical analysis of a rigid rotor supported by aerodynamic four-lobe journal bearing system with mass unbalance. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 454-471.	3.3	20
30	Chaotic vibrations in high-speed milling. Nonlinear Dynamics, 2011, 66, 557-574.	5.2	17
31	Application of quadratic controller to control the pull-in instability of a micro-resonator. International Journal of Mechanics and Materials in Design, 2015, 11, 111-123.	3.0	17
32	A comparative study of nonlinear aeroelastic models for high aspect ratio wings. Journal of Fluids and Structures, 2019, 85, 249-274.	3.4	17
33	A reduced order of complete aeroelastic model for limit cycle oscillations. Aerospace Science and Technology, 2010, 14, 95-105.	4.8	15
34	Sizeâ€dependent free vibration of nano/microbeams with piezoâ€layered actuators. Micro and Nano Letters, 2015, 10, 93-98.	1.3	15
35	Damage detection of an aeroelastic panel using limit cycle oscillation analysis. International Journal of Non-Linear Mechanics, 2014, 58, 99-110.	2.6	14
36	Limit cycle oscillation control of wing with static output feedback control method. Aerospace Science and Technology, 2013, 24, 147-160.	4.8	13

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37	Thermo-electro-mechanical impedance based structural health monitoring of plates. Composite Structures, 2014, 116, 147-164.	5.8	13
38	Vibration characteristics of rotating orthotropic cantilever plates using analytical approaches: a comprehensive parametric study. Archive of Applied Mechanics, 2018, 88, 481-502.	2.2	13
39	Limit Cycle Oscillations of Swept-Back Trapezoidal Wings at Low Subsonic Flow. Journal of Aircraft, 2004, 41, 948-953.	2.4	11
40	A general formulation of quality factor for composite micro/nano beams in the air environment based on the nonlocal elasticity theory. Composite Structures, 2015, 132, 772-783.	5.8	11
41	A Study of the Roll Motion by Means of a Free Decay Test. Journal of Offshore Mechanics and Arctic Engineering, 2010, 132, .	1.2	10
42	Semi-analytical approach for free vibration analysis of cracked beams resting on two-parameter elastic foundation with elastically restrained ends. Frontiers of Mechanical Engineering, 2014, 9, 191-202.	4.3	10
43	Vibration of the rotating rectangular orthotropic Mindlin plates with an arbitrary stagger angle. JVC/Journal of Vibration and Control, 2019, 25, 1194-1209.	2.6	10
44	Fractional-order control with second-order sliding mode algorithm and disturbance estimation for vibration suppression of marine riser. Journal of the Franklin Institute, 2021, 358, 6545-6565.	3.4	10
45	Bifurcation boundary analysis as a nonlinear damage detection feature: does it work?. Journal of Fluids and Structures, 2011, 27, 297-310.	3.4	9
46	Discrete singular convolution and spectral finite element method for predicting electromechanical impedance applied on rectangular plates. Journal of Intelligent Material Systems and Structures, 2017, 28, 2473-2488.	2.5	9
47	Application of scaled boundary finite element method for vibration-based structural health monitoring of breathing cracks. JVC/Journal of Vibration and Control, 2021, 27, 2870-2886.	2.6	8
48	Tracking Control of an Underactuated Gantry Crane using an Optimal Feedback Controller. International Journal of Automotive and Mechanical Engineering, 2013, 7, 830-839.	0.9	7
49	Nonlinear random vibrations of micro-beams with fractional viscoelastic core. Probabilistic Engineering Mechanics, 2022, 69, 103274.	2.7	7
50	Modeling and dynamic study of rotating blades with adjustable stagger angle. Applied Mathematical Modelling, 2021, 89, 1599-1626.	4.2	6
51	On the combined Shooting-Pseudo-Arclength method for finding frequency response of nonlinear fractional-order differential equations. Journal of Sound and Vibration, 2022, 516, 116521.	3.9	6
52	Post-Yield characteristics of electrorheological fluids in nonlinear vibration analysis of smart sandwich panels. Mechanics Based Design of Structures and Machines, 2023, 51, 1944-1963.	4.7	5
53	Size-dependent nonlinear dynamic modeling and vibration analysis of piezo-laminated nanomechanical resonators using perturbation method. Archive of Applied Mechanics, 2020, 90, 1659-1672.	2.2	4
54	Aeroelastic analysis of cantilever plates using Peters' aerodynamic model, and the influence of choosing beam or plate theories as the structural model. Journal of Fluids and Structures, 2020, 96, 103010.	3.4	4

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55	Fourier spectral element for simulation of vibro-acoustic modulation caused by contact nonlinearity in the beam. Thin-Walled Structures, 2022, 174, 109112.	5.3	4
56	A comparative study between linear and sliding mode adaptive controllers for a hot gas generator. Applied Thermal Engineering, 2010, 30, 413-424.	6.0	3
57	Nonlinear Modeling of Cracked Beams for Impedance Based Structural Health Monitoring. , 2017, , .		3
58	Modified finite elements method to investigate vibrations of the main cables in suspended bridges. Engineering Structures, 2020, 216, 110701.	5.3	2
59	Nonlinear vibration of a nanocomposite laminated piezoelectric trapezoidal actuator in subsonic airflow under combined electrical and forcing excitations. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 4784-4817.	2.1	2
60	Robust regulation and tracking system design for multivariable control of the tape transport mechanism. Microsystem Technologies, 2012, 18, 557-573.	2.0	1
61	Scaled Boundary Finite Element Method for Modeling of Impedance Based Structural Health Monitoring of 2D Structure. , 2018, , .		1
62	Two-frequency parametric excitation and combination resonance of a nanocomposite laminated piezoelectric trapezoidal plate in subsonic airflow. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, , 095440622097543.	2.1	1
63	Elasto-Plastic Modeling of Beams for Impedance Based Structural Health Monitoring. , 2018, , .		0
64	Nonlinear Oscillations and Stability of Rotating Low-Aspect-Ratio Blades Containing Internal Resonance. AIAA Journal, 2021, 59, 5066-5090.	2.6	0