

Jaspreet Singh

List of Publications by Year in descending order

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57
papers

860
citations

567281

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59
all docs

59
docs citations

59
times ranked

846
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Characterization and Vibration Performance of Polymeric Composite Structures. , 2022, , .		1
2	A methodology for the design, fabrication and testing of axially graded polymeric structures with tailored vibration characteristics. Polymer Testing, 2021, 94, 107054.	4.8	5
3	Study Correlating Lead (Pb) Level Exposure and Bone Shock Absorption Capacity Based on Damping Associated With Higher Modes of Vibration. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2021, 4, .	0.5	0
4	Evaluating Power Requirements of Electro-Hydraulic Actuators for Active Aeroservoelastic Control. , 2020, , .		1
5	Active Control with the Method of Receptances: Recent Progresses and Its Application in Active Aeroelastic Control. Springer Proceedings in Mathematics and Statistics, 2020, , 159-182.	0.2	0
6	Active aeroelastic output feedback control with partial measurements by the method of receptances. Aerospace Science and Technology, 2019, 86, 47-63.	4.8	16
7	Vibration Performance of Axially Graded Polymeric Viscoelastic Beams. , 2019, , .		1
8	Design, Fabrication and Testing of 3D Printed Wings for Rapid Evaluation of Aeroelastic Performance. , 2018, , .		2
9	Active Control of Viscoelastic Systems by the Method of Receptance. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.6	3
10	Optimal Sizing and Placement of Control Surfaces for Active Aeroservoelastic Control. , 2017, , .		4
11	Fabrication and vibration characterization of electrically triggered shape memory polymer beams. Polymer Testing, 2017, 61, 74-82.	4.8	10
12	Free and Forced Vibration Characteristics of Axially Graded Multifunctional Viscoelastic Beams. , 2017, , .		2
13	Numerical deflation of the transcendental eigenvalue problem. Mechanical Systems and Signal Processing, 2017, 83, 522-532.	8.0	3
14	Active Control of Viscoelastic Systems by the Method of Receptance. , 2016, , .		0
15	Receptance-Based Active Aeroelastic Control with Embedded Control Surfaces Having Actuator Dynamics. Journal of Aircraft, 2016, 53, 830-845.	2.4	24
16	Optimal Selection of Control Surfaces for Active Aeroelastic Control of Prescribed Modes. , 2016, , .		2
17	Eigenvalue and eigenvector computation for discrete and continuous structures composed of viscoelastic materials. International Journal of Mechanical Sciences, 2016, 110, 127-137.	6.7	31
18	An experimental investigation of the effect of strain on the electrical conductivity of a shape memory polymer. Polymer Testing, 2016, 49, 82-87.	4.8	10

#	ARTICLE	IF	CITATIONS
19	Continuous Structures With Viscoelastic Supports: Tuning of Material Parameters and Support Location. , 2015, , .		2
20	Optimal Sizing and Configurations of the Control Surfaces for Active Aeroelastic Control. , 2015, , .		7
21	Effect of Embedded Control Surface Actuators on Active Aeroelastic Control. , 2015, , .		1
22	Active aeroelastic control with time delay for targeted flutter modes. Aerospace Science and Technology, 2015, 43, 281-288.	4.8	20
23	Receptance-Based Active Aeroelastic Control Using Multiple Control Surfaces. Journal of Aircraft, 2014, 51, 335-342.	2.4	36
24	Upgrading the engineering curriculum through thematic learning modules. , 2014, , .		0
25	Optimization of Control Surface Parameters with Augmented Flutter Boundary Constraints. , 2014, , .		7
26	Student perception and knowledge: Assessment of online Computational-Experimental (ComEx) learning modules. , 2014, , .		0
27	Partial eigenvalue assignment and its stability in a time delayed system. Mechanical Systems and Signal Processing, 2014, 42, 247-257.	8.0	25
28	Mode Classification and Dynamic Analysis of Coupled "Motor-Compressor-Flexible-Foundation" Structures. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 53-64.	0.5	4
29	Embedding Specialized Online Learning Modules in Courses. , 2014, , .		0
30	Pole assignment using state feedback with time delay in friction-induced vibration problems. Acta Mechanica, 2013, 224, 645-656.	2.1	31
31	Development of educational techniques for computational-experimental analysis. , 2013, , .		2
32	Model Reduction for Nonlinear Structural Systems Using Balanced Realization Theory. , 2013, , .		0
33	Receptance Based Active Aeroelastic Control Using Multiple Control Surfaces. , 2012, , .		4
34	Revitalizing the Engineering Curriculum Through Studio Based Instruction. , 2012, , .		6
35	Zero assignment in a time delayed continuous system for active vibration control. , 2011, , .		2
36	Closed Form Control Gains for Zero Assignment in the Time Delayed System. Journal of Computational and Nonlinear Dynamics, 2011, 6, .	1.2	6

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37	Effect of laminated core on rotor mode shape of large high speed induction motor. , 2011, , .		9
38	Active Aeroelastic Control Using the Receptance Method. , 2010, , .		14
39	Developing predictive tools for friction stir weld quality assessment. Science and Technology of Welding and Joining, 2010, 15, 142-148.	3.1	12
40	Buckling of functionally graded and elastically restrained non-uniform columns. Composites Part B: Engineering, 2009, 40, 393-403.	12.0	73
41	Transcendental inverse eigenvalue problems in damage parameter estimation. Mechanical Systems and Signal Processing, 2009, 23, 1870-1883.	8.0	19
42	Transcriptional regulation of PSA-NCAM expression by NMDA receptor activation in RA-differentiated C6 glioma cultures. Brain Research Bulletin, 2009, 79, 157-168.	3.0	14
43	Quadratic partial eigenvalue assignment problem with time delay for active vibration control. Journal of Physics: Conference Series, 2009, 181, 012092.	0.4	8
44	Active Absorption of Viscously Damped System With Time Delay. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	2.2	4
45	Characterization and Estimation of Mass Loss Due to Exfoliation Corrosion From Vibration Spectrum. , 2008, , .		0
46	Zero Assignment in Vibration: With and Without Time Delay. , 2007, , 739.		3
47	Detection of minuscule changes in structures from spectral data. , 2007, , .		0
48	Transcendental Inverse Eigenvalue Problem Associated with Longitudinal Vibrations in Rods. AIAA Journal, 2006, 44, 317-322.	2.6	6
49	Pattern characteristics of Indian monsoon rainfall using principal component analysis (PCA). Atmospheric Research, 2006, 79, 317-326.	4.1	35
50	HSP70 induction and oxidative stress protection mediated by a subtoxic dose of NMDA in the retinoic acid-differentiated C6 glioma cell line. Brain Research Bulletin, 2006, 69, 37-47.	3.0	15
51	Free vibration and physical parameter identification of non-uniform composite beams. Composite Structures, 2006, 74, 37-50.	5.8	32
52	Effect of fiber orientation on the structural behavior of FRP wrapped concrete cylinders. Composite Structures, 2006, 74, 475-483.	5.8	74
53	Direct and Inverse Eigenvalue Problems Towards the Design and Identification of Mass-Loaded Micro-Resonators. , 2006, , .		0
54	Zero Assignment in Continuous Systems. , 2003, , .		1

#	ARTICLE	IF	CITATIONS
55	A Mathematical Model to Overcome the Discrepancies Between Continuous Systems and Their Discrete Approximation. , 2002, , 605.		0
56	Transcendental Eigenvalue Problem and Its Applications. AIAA Journal, 2002, 40, 1402-1407.	2.6	49
57	Dynamic Absorption by Passive and Active Control1. Journal of Vibration and Acoustics, Transactions of the ASME, 2000, 122, 429-433.	1.6	18