

S Narayanan

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49
papers

1,632
citations

25
h-index

40
g-index

51
ext. papers

1,839
ext. citations

3
avg, IF

4.86
L-index

#	Paper	IF	Citations
49	Finite element modelling of piezolaminated smart structures for active vibration control with distributed sensors and actuators. <i>Journal of Sound and Vibration</i> , 2003 , 262, 529-562	3.9	171
48	Shell finite element for smart piezoelectric composite plate/shell structures and its application to the study of active vibration control. <i>Finite Elements in Analysis and Design</i> , 2001 , 37, 713-738	2.2	106
47	BIFURCATION AND CHAOS IN GEARED ROTOR BEARING SYSTEM BY INCREMENTAL HARMONIC BALANCE METHOD. <i>Journal of Sound and Vibration</i> , 1999 , 226, 469-492	3.9	95
46	Active vibration control of beams with optimal placement of piezoelectric sensor/actuator pairs. <i>Smart Materials and Structures</i> , 2008 , 17, 055008	3.4	93
45	Optimal semi-active preview control response of a half car vehicle model with magnetorheological damper. <i>Journal of Sound and Vibration</i> , 2009 , 326, 400-420	3.9	89
44	The optimal location of piezoelectric actuators and sensors for vibration control of plates. <i>Smart Materials and Structures</i> , 2007 , 16, 2680-2691	3.4	69
43	Solution of Fokker-Planck equation by finite element and finite difference methods for nonlinear systems. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2006 , 31, 445-461	1	66
42	Chaos Control by Nonfeedback Methods in the Presence of Noise. <i>Chaos, Solitons and Fractals</i> , 1999 , 10, 1473-1489	9.3	55
41	Optimal Preview Control of a Two-dof Vehicle Model Using Stochastic Optimal Control Theory. <i>Vehicle System Dynamics</i> , 1996 , 25, 413-430	2.8	53
40	Sky-hook control of nonlinear quarter car model traversing rough road matching performance of LQR control. <i>Journal of Sound and Vibration</i> , 2009 , 323, 515-529	3.9	52
39	NON-LINEAR DYNAMICS OF A TWO-DIMENSIONAL AIRFOIL BY INCREMENTAL HARMONIC BALANCE METHOD. <i>Journal of Sound and Vibration</i> , 1999 , 226, 493-517	3.9	48
38	Fokker-Planck equation analysis of randomly excited nonlinear energy harvester. <i>Journal of Sound and Vibration</i> , 2014 , 333, 2040-2053	3.9	44
37	A piezolaminated composite degenerated shell finite element for active control of structures with distributed piezosensors and actuators. <i>Smart Materials and Structures</i> , 2008 , 17, 035031	3.4	44
36	MODAL DENSITY OF COMPOSITE HONEYCOMB SANDWICH PANELS. <i>Journal of Sound and Vibration</i> , 1996 , 195, 687-699	3.9	44
35	Response of a quarter car model with optimal magnetorheological damper parameters. <i>Journal of Sound and Vibration</i> , 2013 , 332, 2191-2206	3.9	43
34	Sound transmission through a damped sandwich panel. <i>Journal of Sound and Vibration</i> , 1982 , 80, 315-327	3.9	42
33	FINITE ELEMENT FORMULATION AND ACTIVE VIBRATION CONTROL STUDY ON BEAMS USING SMART CONSTRAINED LAYER DAMPING (SCLD) TREATMENT. <i>Journal of Sound and Vibration</i> , 2002 , 249, 227-250	3.9	40

32	CONTROLLING CHAOTIC MOTIONS IN A TWO-DIMENSIONAL AIRFOIL USING TIME-DELAYED FEEDBACK. <i>Journal of Sound and Vibration</i> , 2001 , 239, 1037-1049	3.9	37
31	Preview control of random response of a half-car vehicle model traversing rough road. <i>Journal of Sound and Vibration</i> , 2008 , 310, 352-365	3.9	36
30	Sound transmission through elastically supported sandwich panels into a rectangular enclosure. <i>Journal of Sound and Vibration</i> , 1981 , 77, 251-270	3.9	36
29	STOCHASTIC OPTIMAL ACTIVE CONTROL OF A 2-DOF QUARTER CAR MODEL WITH NON-LINEAR PASSIVE SUSPENSION ELEMENTS. <i>Journal of Sound and Vibration</i> , 1998 , 211, 495-506	3.9	35
28	Numerical solutions of Fokker-Planck equation of nonlinear systems subjected to random and harmonic excitations. <i>Probabilistic Engineering Mechanics</i> , 2012 , 27, 35-46	2.6	33
27	Investigations on the bifurcation of a noisy Duffing-Van der Pol oscillator. <i>Probabilistic Engineering Mechanics</i> , 2016 , 45, 70-86	2.6	27
26	Finite element solution of Fokker-Planck equation of nonlinear oscillators subjected to colored non-Gaussian noise. <i>Probabilistic Engineering Mechanics</i> , 2014 , 38, 143-155	2.6	26
25	Chaotic oscillations in pipes conveying pulsating fluid. <i>Nonlinear Dynamics</i> , 1996 , 10, 333-357	5	26
24	CRITICAL AND COINCIDENCE FREQUENCIES OF FLAT PANELS. <i>Journal of Sound and Vibration</i> , 1997 , 205, 19-32	3.9	25
23	Numeric-analytic solutions of the smooth and discontinuous oscillator. <i>International Journal of Mechanical Sciences</i> , 2014 , 84, 102-119	5.5	21
22	Modified Path Integral Solution of Fokker-Planck Equation: Response and Bifurcation of Nonlinear Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2010 , 5,	1.4	19
21	Parametric identification of nonlinear systems using multiple trials. <i>Nonlinear Dynamics</i> , 2007 , 48, 341-360	5	19
20	Periodic Response and Chaos in Nonlinear Systems with Parametric Excitation and Time Delay. <i>Nonlinear Dynamics</i> , 2002 , 27, 341-365	5	18
19	Active Vibration Control of Piezolaminated Smart Beams. <i>Defence Science Journal</i> , 2001 , 51, 103-114	1.4	17
18	A piezoelectric higher-order plate element for the analysis of multi-layer smart composite laminates. <i>Smart Materials and Structures</i> , 2007 , 16, 2026-2039	3.4	15
17	Finite element modeling of stiffened piezolaminated plates and shells with piezoelectric layers for active vibration control. <i>Smart Materials and Structures</i> , 2010 , 19, 105003	3.4	14
16	Multilayer Higher Order Piezolaminated Smart Composite Shell Finite Element and its Application to Active Vibration Control. <i>Journal of Intelligent Material Systems and Structures</i> , 2009 , 20, 425-441	2.3	14
15	Optimal estimation and control of non-stationary response of a two-degree-of-freedom vehicle model. <i>Journal of Sound and Vibration</i> , 1991 , 149, 413-428	3.9	14

14	Optimal response of half car vehicle model with sky-hook damper based on LQR control. <i>International Journal of Dynamics and Control</i> , 2020 , 8, 488-496	1.7	10
13	Sound transmission through layered cylindrical shells with applied damping treatment. <i>Journal of Sound and Vibration</i> , 1984 , 92, 541-558	3.9	8
12	Active control of non-stationary response of a two-degree of freedom vehicle model with nonlinear suspension. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1995 , 20, 489-499	1	6
11	Chaos in mechanical systems [A review]. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1995 , 20, 529-582	1	6
10	Control of response of a quarter-car vehicle model with optimal skyhook damper. <i>International Journal of Vehicle Autonomous Systems</i> , 2008 , 6, 396	0.4	5
9	Functionally Graded Shells with Distributed Piezoelectric Sensors and Actuators for Active Vibration Control 2010 , 3-13		3
8	Targeted energy transfer in stochastically excited system with nonlinear energy sink. <i>European Journal of Applied Mathematics</i> , 2019 , 30, 869-886	1	3
7	OPTIMUM STRUCTURAL DESIGN IN RANDOM VIBRATION ENVIRONMENTS. <i>Engineering Optimization</i> , 1978 , 3, 97-108	2	2
6	Efficient path integral solution of Fokker-Planck equation: response, bifurcation and periodicity of nonlinear systems. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2011 , 3, 111-125	0.6	1
5	A HIGHER ORDER FINITE ELEMENT MODELING OF PIEZOLAMINATED SMART COMPOSITE PLATES AND ITS APPLICATION TO ACTIVE VIBRATION CONTROL. <i>International Journal of Computational Methods</i> , 2007 , 04, 141-162	1.1	1
4	Optimal response of half car vehicle model with sky-hook damper using LQR with look ahead preview control. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020 , 42, 1	2	1
3	Dynamics of Nonlinear Oscillators with Discontinuous Nonlinearities Subjected to Harmonic and Stochastic Excitations. <i>Journal of the Institution of Engineers (India): Series C</i> , 2021 , 102, 1321-1363	0.9	0
2	Dynamics of stochastic vibro-impact oscillator with compliant contact force models. <i>International Journal of Non-Linear Mechanics</i> , 2022 , 104086	2.8	0
1	Control of Chaos in Nonlinear Systems Subjected to Parametric and Stochastic Excitations. <i>Solid Mechanics and Its Applications</i> , 2001 , 171-184	0.4	