

Manohar C S

List of Publications by Year in descending order

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72
papers

1,481
citations

304368

22
h-index

344852

36
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73
all docs

73
docs citations

73
times ranked

687
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in Structural Dynamics With Stochastic Parameter Variations: 1987-1998. Applied Mechanics Reviews, 1999, 52, 177-197.	4.5	124
2	An improved response surface method for the determination of failure probability and importance measures. Structural Safety, 2004, 26, 123-139.	2.8	111
3	A time-domain approach for damage detection in beam structures using vibration data with a moving oscillator as an excitation source. Journal of Sound and Vibration, 2003, 268, 699-716.	2.1	103
4	Dynamic analysis of framed structures with statistical uncertainties. International Journal for Numerical Methods in Engineering, 1999, 44, 1157-1178.	1.5	71
5	Investigations into critical earthquake load models within deterministic and probabilistic frameworks. Earthquake Engineering and Structural Dynamics, 2002, 31, 813-832.	2.5	60
6	Nonstationary Random Critical Seismic Excitations. Journal of Engineering Mechanics - ASCE, 1987, 113, 529-541.	1.6	59
7	Critical earthquake input power spectral density function models for engineering structures. Earthquake Engineering and Structural Dynamics, 1995, 24, 1549-1566.	2.5	50
8	Nonlinear structural dynamical system identification using adaptive particle filters. Journal of Sound and Vibration, 2007, 306, 524-563.	2.1	47
9	Nonlinear reduced models for beam damage detection using data on moving oscillatorâ€™beam interactions. Computers and Structures, 2004, 82, 301-314.	2.4	39
10	Reliability analysis of randomly vibrating structures with parameter uncertainties. Journal of Sound and Vibration, 2006, 297, 1000-1024.	2.1	35
11	Monte Carlo filters for identification of nonlinear structural dynamical systems. Sadhana - Academy Proceedings in Engineering Sciences, 2006, 31, 399-427.	0.8	35
12	Finite element method based Monte Carlo filters for structural system identification. Probabilistic Engineering Mechanics, 2011, 26, 294-307.	1.3	34
13	CRITICAL SEISMIC VECTOR RANDOM EXCITATIONS FOR MULTIPLY SUPPORTED STRUCTURES. Journal of Sound and Vibration, 1998, 212, 525-546.	2.1	33
14	Reliability-based vector nonstationary random critical earthquake excitations for parametrically excited systems. Structural Safety, 2007, 29, 32-48.	2.8	33
15	A sequential importance sampling filter with a new proposal distribution for state and parameter estimation of nonlinear dynamical systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 25-47.	1.0	33
16	A particle filtering approach for structural system identification in vehicleâ€™structure interaction problems. Journal of Sound and Vibration, 2010, 329, 1289-1309.	2.1	33
17	A Kalman filter based strategy for linear structural system identification based on multiple static and dynamic test data. Probabilistic Engineering Mechanics, 2009, 24, 60-74.	1.3	28
18	Safety Assessment of a Masonry Arch Bridge: Field Testing and Simulations. Journal of Bridge Engineering, 2013, 18, 162-171.	1.4	26

#	ARTICLE	IF	CITATIONS
19	DYNAMIC STIFFNESS METHOD FOR CIRCULAR STOCHASTIC TIMOSHENKO BEAMS: RESPONSE VARIABILITY AND RELIABILITY ANALYSES. <i>Journal of Sound and Vibration</i> , 2002, 253, 1051-1085.	2.1	25
20	New forms of extended Kalman filter via transversal linearization and applications to structural system identification. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 5063-5083.	3.4	25
21	Improved Response Surface Method for Time-Variant Reliability Analysis of Nonlinear Random Structures Under Non-Stationary Excitations. <i>Nonlinear Dynamics</i> , 2004, 36, 267-280.	2.7	24
22	Global response sensitivity analysis using probability distance measures and generalization of Sobol's analysis. <i>Probabilistic Engineering Mechanics</i> , 2015, 41, 21-33.	1.3	24
23	Reliability-based critical earthquake load models. Part 2: nonlinear structures. <i>Journal of Sound and Vibration</i> , 2005, 287, 883-900.	2.1	23
24	Global response sensitivity analysis of uncertain structures. <i>Structural Safety</i> , 2016, 58, 94-104.	2.8	21
25	CRITICAL CROSS POWER SPECTRAL DENSITY FUNCTIONS AND THE HIGHEST RESPONSE OF MULTI-SUPPORTED STRUCTURES SUBJECTED TO MULTI-COMPONENT EARTHQUAKE EXCITATIONS. <i>Earthquake Engineering and Structural Dynamics</i> , 1996, 25, 303-315.	2.5	20
26	A conditionally linearized Monte Carlo filter in non-linear structural dynamics. <i>International Journal of Non-Linear Mechanics</i> , 2009, 44, 776-790.	1.4	20
27	Time variant reliability model updating in instrumented dynamical systems based on Girsanov's transformation. <i>International Journal of Non-Linear Mechanics</i> , 2013, 52, 32-40.	1.4	20
28	Multivariate Extreme Value Distributions for Random Vibration Applications. <i>Journal of Engineering Mechanics - ASCE</i> , 2005, 131, 712-720.	1.6	19
29	Reliability models for existing structures based on dynamic state estimation and data based asymptotic extreme value analysis. <i>Probabilistic Engineering Mechanics</i> , 2010, 25, 393-405.	1.3	19
30	Reliability-based critical earthquake load models. Part 1: linear structures. <i>Journal of Sound and Vibration</i> , 2005, 287, 865-882.	2.1	17
31	Probability Distribution of Extremes of Von Mises Stress in Randomly Vibrating Structures. <i>Journal of Vibration, Acoustics, Stress, and Reliability in Design</i> , 2005, 127, 547.	2.0	17
32	Use of particle filters in an active control algorithm for noisy nonlinear structural dynamical systems. <i>Journal of Sound and Vibration</i> , 2007, 306, 111-135.	2.1	15
33	Experimental estimation of time variant system reliability of vibrating structures based on subset simulation with Markov chain splitting. <i>Reliability Engineering and System Safety</i> , 2018, 178, 55-68.	5.1	15
34	Dynamic stiffness matrix of a general cable element. <i>Archive of Applied Mechanics</i> , 1996, 66, 315-325.	1.2	14
35	Markov chain splitting methods in structural reliability integral estimation. <i>Probabilistic Engineering Mechanics</i> , 2015, 40, 42-51.	1.3	13
36	Probability Distribution of the Eigenvalues of the Random String Equation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1989, 56, 202-207.	1.1	12

#	ARTICLE	IF	CITATIONS
37	A semi-analytical particle filter for identification of nonlinear oscillators. Probabilistic Engineering Mechanics, 2010, 25, 35-48.	1.3	12
38	Updating reliability models of statically loaded instrumented structures. Structural Safety, 2013, 40, 21-30.	2.8	12
39	Girsanov's transformation based variance reduced Monte Carlo simulation schemes for reliability estimation in nonlinear stochastic dynamics. Journal of Computational Physics, 2017, 341, 278-294.	1.9	11
40	Inverse problems in structural safety analysis with combined probabilistic and non-probabilistic uncertainty models. Engineering Structures, 2017, 150, 166-175.	2.6	11
41	Estimation of time variant reliability of randomly parametered non-linear vibrating systems. Structural Safety, 2014, 47, 59-66.	2.8	10
42	Random vibration testing with controlled samples. Structural Control and Health Monitoring, 2014, 21, 1269-1283.	1.9	10
43	Nonlinear dynamic state estimation in instrumented structures with conditionally linear Gaussian substructures. Probabilistic Engineering Mechanics, 2012, 30, 89-103.	1.3	9
44	Bayesian parameter identification in dynamic state space models using modified measurement equations. International Journal of Non-Linear Mechanics, 2015, 71, 89-103.	1.4	9
45	Methods of nonlinear random vibration analysis. Sadhana - Academy Proceedings in Engineering Sciences, 1995, 20, 345-371.	0.8	8
46	Structural analysis with alternative uncertainty models: From data to safety measures. Structural Safety, 2016, 62, 116-127.	2.8	8
47	Inverse reliability based structural design for system dependent critical earthquake loads. Probabilistic Engineering Mechanics, 2005, 20, 19-31.	1.3	7
48	Updating response sensitivity models of nonlinear vibrating structures using particle filters. Computers and Structures, 2011, 89, 901-911.	2.4	7
49	Investigations into critical earthquake load models within deterministic and probabilistic frameworks. , 2002, 31, 813.		7
50	System reliability of randomly vibrating structures: Computational modeling and laboratory testing. Journal of Sound and Vibration, 2015, 351, 189-205.	2.1	6
51	State dependent Girsanov's controls in time variant reliability estimation in randomly excited dynamical systems. Structural Safety, 2018, 72, 30-40.	2.8	6
52	Particle filters for structural system identification using multiple test and sensor data: A combined computational and experimental study. Structural Control and Health Monitoring, 2010, 18, n/a-n/a.	1.9	5
53	Dynamic state estimation for identifying earthquake support motions in instrumented structures. Earthquake and Structures, 2013, 5, 359-378.	1.0	5
54	Girsanov Transformation-Based Reliability Modeling and Testing of Actively Controlled Structures. Journal of Engineering Mechanics - ASCE, 2015, 141, 04014168.	1.6	5

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55	Global Response Sensitivity Analysis of Randomly Excited Dynamic Structures. Journal of Engineering Mechanics - ASCE, 2016, 142, 04015094.	1.6	5
56	Optimal cross-spectrum of road loads on vehicles: theory and experiments. JVC/Journal of Vibration and Control, 2016, 22, 4012-4024.	1.5	5
57	Substructuring tools for probabilistic analysis of instrumented nonlinear moving oscillatorâ€™beam systems. Applied Mathematical Modelling, 2017, 42, 600-617.	2.2	4
58	Combined state and parameter identification of nonlinear structural dynamical systems based on Rao-Blackwellization and Markov chain Monte Carlo simulations. Mechanical Systems and Signal Processing, 2018, 102, 364-381.	4.4	4
59	Adaptive time stepping in pseudo-dynamic testing of earthquake driven structures. Bulletin of Earthquake Engineering, 2016, 14, 3047-3074.	2.3	3
60	Time variant reliability estimation of randomly excited uncertain dynamical systems by combined Markov chain splitting and Girsanovâ€™s transformation. Archive of Applied Mechanics, 2020, 90, 2363-2377.	1.2	3
61	Multivariate probability distribution of ordered peaks of vector Gaussian random processes. Probabilistic Engineering Mechanics, 2005, 20, 87-96.	1.3	2
62	Numerical aspects of a real-time sub-structuring technique in structural dynamics. International Journal for Numerical Methods in Engineering, 2007, 72, 1261-1313.	1.5	2
63	Model Distanceâ€™Based Globalâ€™Local Response-Sensitivity Indexes for Randomly Inhomogeneous Structures under Stochastic Excitations. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2018, 4, 05018002.	1.1	2
64	Estimation of time-variant system reliability of nonlinear randomly excited systems based on the Girsanov transformation with state-dependent controls. Nonlinear Dynamics, 2019, 95, 1693-1711.	2.7	2
65	Narrowband random excitation of a limit cycle system. Archive of Applied Mechanics, 1991, 61, 133-141.	1.2	2
66	Dynamic stiffness matrix for axially vibrating stochastic rods using Stratonovichâ€™s averaging principle. Archive of Applied Mechanics, 1997, 67, 200-213.	1.2	1
67	Optimal input cross-power spectra in shake table testing of asymmetric structures. Earthquake and Structures, 2015, 9, 1115-1132.	1.0	1
68	Simulation Based Methods for Model Updating in Structural Condition Assessment. , 2013, , 83-112.		0
69	Substructuring Methods for Finite Element Analysis. , 2014, , 1-15.		0
70	Substructuring Methods for Finite Element Analysis. , 2015, , 3691-3704.		0
71	Efficient Simulation-Based Bayesian Methods for Structural Condition Assessment. , 2022, , 73-109.		0
72	Dynamic state estimation in nonlinear stiff systems using implicit state space models. Structural Control and Health Monitoring, 0, , .	1.9	0