

Richard V Field

List of Publications by Year in descending order

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37
papers

459
citations

840776

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713466

21
g-index

37
all docs

37
docs citations

37
times ranked

432
citing authors

#	ARTICLE	IF	CITATIONS
1	On the accuracy of the polynomial chaos approximation. Probabilistic Engineering Mechanics, 2004, 19, 65-80.	2.7	125
2	Predicting Fracture in Micrometer-Scale Polycrystalline Silicon MEMS Structures. Journal of Microelectromechanical Systems, 2011, 20, 922-932.	2.5	34
3	Direct numerical simulations in solid mechanics for understanding the macroscale effects of microscale material variability. Computer Methods in Applied Mechanics and Engineering, 2015, 287, 262-289.	6.6	34
4	Development and calibration of a stochastic dynamics model for the design of a MEMS inertial switch. Sensors and Actuators A: Physical, 2007, 134, 109-118.	4.1	30
5	AN EFFICIENT METHOD FOR CALCULATING R.M.S. VON MISES STRESS IN A RANDOM VIBRATION ENVIRONMENT. Journal of Sound and Vibration, 2000, 230, 393-410.	3.9	24
6	Predicting laser weld reliability with stochastic reduced-order models. International Journal for Numerical Methods in Engineering, 2015, 103, 914-936.	2.8	23
7	Estimating the Probability Distribution of von Mises Stress for Structures Undergoing Random Excitation. Journal of Vibration and Acoustics, Transactions of the ASME, 2000, 122, 42-48.	1.6	19
8	Optimal design of sensor networks for vehicle detection, classification, and monitoring. Probabilistic Engineering Mechanics, 2006, 21, 305-316.	2.7	19
9	Compression Analytics for Classification and Anomaly Detection Within Network Communication. IEEE Transactions on Information Forensics and Security, 2019, 14, 1366-1376.	6.9	14
10	A method for the efficient construction and sampling of vector-valued translation random fields. Probabilistic Engineering Mechanics, 2012, 29, 79-91.	2.7	13
11	Comparison of a Turbulent Boundary Layer Pressure Fluctuation Model to Hypersonic Cone Measurements. , 2016, , .		12
12	Bayesian methods for characterizing unknown parameters of material models. Applied Mathematical Modelling, 2016, 40, 6395-6411.	4.2	12
13	Input and Design Optimization Under Uncertainty to Minimize the Impact Velocity of an Electrostatically Actuated MEMS Switch. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.6	11
14	Optimal stochastic models for spacecraft atmospheric re-entry. Journal of Sound and Vibration, 2006, 290, 991-1014.	3.9	10
15	Model selection for a class of stochastic processes or random fields with bounded range. Probabilistic Engineering Mechanics, 2009, 24, 331-342.	2.7	10
16	Computation of probabilistic stability measures for a controlled distributed parameter system. Probabilistic Engineering Mechanics, 1995, 10, 181-192.	2.7	9
17	A solution to the static frame validation challenge problem using Bayesian model selection. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 2540-2549.	6.6	9
18	A method for analysis of linear dynamic systems driven by stationary non-Gaussian noise with applications to turbulence-induced random vibration. Applied Mathematical Modelling, 2014, 38, 336-354.	4.2	9

#	ARTICLE	IF	CITATIONS
19	A Poisson random field model for intermittent phenomena with application to laminar-turbulent transition and material microstructure. Applied Mathematical Modelling, 2011, 35, 1142-1156.	4.2	6
20	Modeling of atmospheric temperature fluctuations by translations of oscillatory random processes with application to spacecraft atmospheric re-entry. Probabilistic Engineering Mechanics, 2011, 26, 231-239.	2.7	6
21	Reliability of dynamic systems under limited information. Probabilistic Engineering Mechanics, 2009, 24, 16-26.	2.7	5
22	Modeling and Input Optimization Under Uncertainty for a Collection of RF MEMS Devices. , 2006, , .		4
23	A decision-theoretic method for surrogate model selection. Journal of Sound and Vibration, 2008, 311, 1371-1390.	3.9	3
24	Level cut Gaussian random field models for transitions from laminar to turbulent flow. Probabilistic Engineering Mechanics, 2012, 28, 91-102.	2.7	3
25	On data collection, graph construction, and sampling in Twitter. , 2016, , .		3
26	Generalized Boundary Detection Using Compression-based Analytics. , 2019, , .		3
27	An algorithm for on-the-fly generation of samples of non-stationary Gaussian processes based on a sampling theorem. Monte Carlo Methods and Applications, 2013, .	0.8	2
28	Reordering Genomic Sequences for Enhanced Classification via Compression Analytics. , 2019, , .		2
29	A two-step method for analysis of linear systems with uncertain parameters driven by Gaussian noise. Probabilistic Engineering Mechanics, 2013, 34, 200-210.	2.7	1
30	Temporal Anomaly Detection in Social Media. , 2017, , .		1
31	Efficient Transfer Learning for Neural Network Language Models. , 2018, , .		1
32	Efficient Generalized Boundary Detection Using a Sliding Information Distance. IEEE Transactions on Signal Processing, 2020, 68, 6394-6401.	5.3	1
33	A Poisson Random Field Model for the Dynamics of Laminar-to-Turbulent Transition on a Flight Vehicle. , 2011, , .		1
34	Investigating a reliable covariance control scheme for MDOF systems. , 1998, , .		0
35	Estimating users' mode transition functions and activity levels from social media. , 2017, , .		0
36	Closure to "Discussion of "Estimating the Probability Distribution of von Mises Stress for Structures Undergoing Random Excitation" [ASME]. Vibr. Acoust., 122, No. 1, pp. 42-48 (2000)]. Journal of Vibration and Acoustics, Transactions of the ASME, 2000, 122, 336-337.	1.6	0

#	ARTICLE	IF	CITATIONS
37	Probability Distribution of von Mises Stress in the Presence of Pre-load. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 165-179.	0.5	0