Christian Soize

List of Publications by Year
in descending order

281 papers	7,836 citations	66343 42 h-index	76900 74 g-index
297 all docs	297 docs citations	297 times ranked	2463 citing authors

#	Article	IF	Citations
1	Probabilistic learning and updating of a digital twin for composite material systems. International Journal for Numerical Methods in Engineering, 2022, 123, 3004-3020.	2.8	17
2	Probabilistic learning on manifolds (PLoM) with partition. International Journal for Numerical Methods in Engineering, 2022, 123, 268-290.	2.8	14
3	Multi-frequency model reduction for uncertainty quantification in computational vibroacoutics. Computational Mechanics, 2022, 69, 661.	4.0	2
4	Nonlinear stochastic dynamics of detuned bladed-disks with uncertain mistuning and detuning optimization using a probabilistic machine learning tool. International Journal of Non-Linear Mechanics, 2022, 143, 104023.	2.6	9
5	Probabilistic learning inference of boundary value problem with uncertainties based on Kullback–Leibler divergence under implicit constraints. Computer Methods in Applied Mechanics and Engineering, 2022, 395, 115078.	6.6	4
6	Machine learning for detecting structural changes from dynamic monitoring using the probabilistic learning on manifolds. Structure and Infrastructure Engineering, 2021, 17, 1418-1430.	3.7	5
7	COMPUTATION OF SOBOL INDICES IN GLOBAL SENSITIVITY ANALYSIS FROM SMALL DATA SETS BY PROBABILISTIC LEARNING ON MANIFOLDS. , 2021, 11, 1-23.		10
8	A Novel Source-Filter Stochastic Model for Voice Production. Journal of Voice, 2021, , .	1.5	1
9	Robust Three-Dimensional Acoustic Performance Probabilistic Model for Nacelle Liners. AIAA Journal, 2021, 59, 4195-4211.	2.6	2
10	A stochastic model of voice generation and the corresponding solution for the inverse problem using Artificial Neural Network for case with pathology in the vocal folds. Biomedical Signal Processing and Control, 2021, 68, 102623.	5.7	1
11	Probabilistic learning on manifolds constrained by nonlinear partial differential equations for small datasets. Computer Methods in Applied Mechanics and Engineering, 2021, 380, 113777.	6.6	15
12	Computational stochastic homogenization of heterogeneous media from an elasticity random field having an uncertain spectral measure. Computational Mechanics, 2021, 68, 1003-1021.	4.0	3
13	Stochastic elliptic operators defined by non-Gaussian random fields with uncertain spectrum. Theory of Probability and Mathematical Statistics, 2021, 105, 113-136.	0.5	6
14	High-speed train suspension health monitoring using computational dynamics and acceleration measurements. Vehicle System Dynamics, 2020, 58, 911-932.	3.7	25
15	Physics–constrained non–Gaussian probabilistic learning on manifolds. International Journal for Numerical Methods in Engineering, 2020, 121, 110-145.	2.8	18
16	Robust dynamic analysis of detuned-mistuned rotating bladed disks with geometric nonlinearities. Computational Mechanics, 2020, 65, 711-730.	4.0	12
17	Adaptive method for indirect identification of the statistical properties of random fields in a Bayesian framework. Computational Statistics, 2020, 35, 111-133.	1.5	6
18	Compressed Principal Component Analysis of Non-Gaussian Vectors. SIAM-ASA Journal on Uncertainty Quantification, 2020, 8, 1261-1286.	2.0	3

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19	Fatigue analysis of a bridge deck using the peaks-over-threshold approach with application to the Millau viaduct. SN Applied Sciences, 2020, 2, 1.	2.9	4
20	Uncertainty quantification for dynamics of geometrically nonlinear structures coupled with internal acoustic fluids in presence of sloshing and capillarity. Journal of Fluids and Structures, 2020, 94, 102966.	3.4	5
21	Sampling of Bayesian posteriors with a non-Gaussian probabilistic learning on manifolds from a small dataset. Statistics and Computing, 2020, 30, 1433-1457.	1.5	13
22	Stochastic computational model of 3D acoustic noise predictions for nacelle liners. , 2020, , .		2
23	Structural uncertainty modeling for nonlinear geometric response using nonintrusive reduced order models. Probabilistic Engineering Mechanics, 2020, 60, 103033.	2.7	4
24	Non-Gaussian Random Fields in Multiscale Mechanics of Heterogeneous Materials. , 2020, , 1826-1834.		3
25	Nonparametric probabilistic approach for uncertainty quantification of geometrically nonlinear mistuned bladed-disks.. Journal of Physics: Conference Series, 2019, 1264, 012038.	0.4	0
26	Design optimization of a scramjet under uncertainty using probabilistic learning on manifolds. Journal of Computational Physics, 2019, 399, 108930.	3.8	18
27	Feasible Probabilistic Learning Method for Model-Form Uncertainty Quantification in Vibration Analysis. AIAA Journal, 2019, 57, 4978-4991.	2.6	22
28	Revisiting the experiment of a free-surface resonance of a liquid in a vibration tank using a nonlinear fluidâ€"structure computational model. Journal of Fluids and Structures, 2019, 85, 149-164.	3.4	9
29	Statistical inverse identification for nonlinear train dynamics using a surrogate model in a Bayesian framework. Journal of Sound and Vibration, 2019, 458, 158-176.	3.9	6
30	Modeling uncertainties in molecular dynamics simulations using a stochastic reduced-order basis. Computer Methods in Applied Mechanics and Engineering, 2019, 354, 37-55.	6.6	15
31	Identification and sampling of Bayesian posteriors of high-dimensional symmetric positive-definite matrices for data-driven updating of computational models. Computer Methods in Applied Mechanics and Engineering, 2019, 352, 300-323.	6.6	6
32	Entropy-based closure for probabilistic learning on manifolds. Journal of Computational Physics, 2019, 388, 518-533.	3.8	20
33	Stochastic modeling and identification of a hyperelastic constitutive model for laminated composites. Computer Methods in Applied Mechanics and Engineering, 2019, 347, 425-444.	6.6	40
34	Probabilistic analysis of the effect of the combination of traffic and wind actions on a cable-stayed bridge. Bridge Structures, 2019, 15, 121-138.	0.4	1
35	Novel formulation for the effects of sloshing with capillarity on elastic structures in linear dynamics. International Journal for Numerical Methods in Engineering, 2019, 122, 5313.	2.8	3
36	Probabilistic learning for modeling and quantifying modelâ€form uncertainties in nonlinear computational mechanics. International Journal for Numerical Methods in Engineering, 2019, 117, 819-843.	2.8	21

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37	Enhancing Model Predictability for a Scramjet Using Probabilistic Learning on Manifolds. AIAA Journal, 2019, 57, 365-378.	2.6	10
38	Experimental evaluation and model of a nonlinear absorber for vibration attenuation. Communications in Nonlinear Science and Numerical Simulation, 2019, 69, 386-397.	3.3	15
39	Probabilistic learning on manifolds. , 2019, .		4
40	Optimal Well-Placement Using Probabilistic Learning. Data-Enabled Discovery and Applications, 2018, 2, 1.	1.2	12
41	A Stochastic Projection-Based Hyperreduced Order Model for Model-Form Uncertainties in Vibration Analysis. , 2018, , .		3
42	Non-Gaussian Random Fields in Multiscale Mechanics of Heterogeneous Materials. , 2018, , 1-9.		4
43	Modeling and Quantification of Model-Form Uncertainties in Eigenvalue Computations Using a Stochastic Reduced Model. AIAA Journal, 2018, 56, 1198-1210.	2.6	20
44	Probabilistic nonconvex constrained optimization with fixed number of function evaluations. International Journal for Numerical Methods in Engineering, 2018, 113, 719-741.	2.8	16
45	Symbolic and numeric scheme for solution of linear integro-differential equations with random parameter uncertainties and Gaussian stochastic process input. Applied Mathematical Modelling, 2018, 56, 15-31.	4.2	2
46	Design optimization under uncertainties of a mesoscale implant in biological tissues using a probabilistic learning algorithm. Computational Mechanics, 2018, 62, 477-497.	4.0	7
47	Data-driven kernel representations for sampling with an unknown block dependence structure under correlation constraints. Computational Statistics and Data Analysis, 2018, 119, 139-154.	1.2	20
48	Solving generalized eigenvalue problems for large scale fluid-structure computational models with mid-power computers. Computers and Structures, 2018, 205, 45-54.	4.4	5
49	Stochastic mechanical model of vocal folds for producing jitter and for identifying pathologies through real voices. Journal of Biomechanics, 2018, 74, 126-133.	2.1	7
50	Voice Signals Produced With Jitter Through a Stochastic One-mass Mechanical Model. Journal of Voice, 2017, 31, 111.e9-111.e18.	1.5	9
51	A nonparametric probabilistic approach for quantifying uncertainties in lowâ€dimensional and highâ€dimensional nonlinear models. International Journal for Numerical Methods in Engineering, 2017, 109, 837-888.	2.8	36
52	Polynomial chaos representation of databases on manifolds. Journal of Computational Physics, 2017, 335, 201-221.	3.8	17
53	Optimal Partition in Terms of Independent Random Vectors of Any Non-Gaussian Vector Defined by a Set of Realizations. SIAM-ASA Journal on Uncertainty Quantification, 2017, 5, 176-211.	2.0	1
54	Uncertainty Quantification. Interdisciplinary Applied Mathematics, 2017, , .	0.3	89

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55	Fundamental Notions in Stochastic Modeling of Uncertainties and Their Propagation in Computational Models. Interdisciplinary Applied Mathematics, 2017, , 1-15.	0.3	4
56	Random Fields and Uncertainty Quantification in Solid Mechanics of Continuum Media. Interdisciplinary Applied Mathematics, 2017, , 245-300.	0.3	0
57	MCMC Methods for Generating Realizations and for Estimating the Mathematical Expectation of Nonlinear Mappings of Random Vectors. Interdisciplinary Applied Mathematics, 2017, , 61-76.	0.3	1
58	Fundamental Probabilistic Tools for Stochastic Modeling of Uncertainties. Interdisciplinary Applied Mathematics, 2017, , 77-132.	0.3	0
59	Brief Overview of Stochastic Solvers for the Propagation of Uncertainties. Interdisciplinary Applied Mathematics, 2017, , 133-139.	0.3	0
60	Uncertainty Quantification in Computational Structural Dynamics and Vibroacoustics. Interdisciplinary Applied Mathematics, 2017, , 155-216.	0.3	1
61	Robust Analysis with Respect to the Uncertainties for Analysis, Updating, Optimization, and Design. Interdisciplinary Applied Mathematics, 2017, , 217-243.	0.3	0
62	Nested polynomial trends for the improvement of Gaussian process-based predictors. Journal of Computational Physics, 2017, 346, 389-402.	3.8	4
63	Identifying a stochastic process related to the stiffness in a voice production mechanical model. Procedia Engineering, 2017, 199, 912-917.	1.2	1
64	Uncertainty Quantification for an Elasto-acoustic Nonlinear Reduced-Order Computational Model.. Procedia Engineering, 2017, 199, 1204-1209.	1.2	2
65	Model uncertainties in computational viscoelastic linear structural dynamics. Procedia Engineering, 2017, 199, 1210-1215.	1.2	3
66	Bayesian calibration of mechanical parameters of high-speed train suspensions. Procedia Engineering, 2017, 199, 1234-1239.	1.2	0
67	Multilevel model reduction for uncertainty quantification in computational structural dynamics. Computational Mechanics, 2017, 59, 219-246.	4.0	19
68	Computational Vibroacoustics in Low- and Medium- Frequency Bands: Damping, ROM, and UQ Modeling. Applied Sciences (Switzerland), 2017, 7, 586.	2.5	9
69	Random Matrix Models and Nonparametric Method for Uncertainty Quantification. , 2017, , 219-287.		3
70	AN IMPROVEMENT OF THE UNCERTAINTY QUANTIFICATION IN COMPUTATIONAL STRUCTURAL DYNAMICS WITH NONLINEAR GEOMETRICAL EFFECTS. , 2017, 7, 83-98.		8
71	Optimal Design of the Acoustic Treatments Damping the Noise Radiated by a Turbo-Fan Engine. , 2017, , .		6
72	PROBABILISTIC LEARNING ON MANIFOLD FOR OPTIMIZATION UNDER UNCERTAINTIES. , 2017, , .		1

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73	Random Vectors and Random Fields in High Dimension: Parametric Model-Based Representation, Identification from Data, and Inverse Problems. , 2017, , 883-935.		1
74	Nonlinear Microstructured Material to Reduce Noise and Vibrations at Low Frequencies. Journal of Physics: Conference Series, 2016, 744, 012190.	0.4	0
75	Nonlinear model reduction for computational vibration analysis of structures with weak geometrical nonlinearity coupled with linear acoustic liquids in the presence of linear sloshing and capillarity. Computers and Fluids, 2016, 141, 82-89.	2.5	6
76	Stochastic prediction of high-speed train dynamics to long-term evolution of track irregularities. Mechanics Research Communications, 2016, 75, 29-39.	1.8	18
77	Maximum entropy modeling of discrete uncertain properties with application to friction. Probabilistic Engineering Mechanics, 2016, 44, 128-137.	2.7	9
78	Jitter generation in voice signals produced by a two-mass stochastic mechanical model. Biomedical Signal Processing and Control, 2016, 27, 87-95.	5.7	8
79	Experimental multiscale measurements for the mechanical identification of a cortical bone by digital image correlation. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 125-133.	3.1	14
80	Data-driven probability concentration and sampling on manifold. Journal of Computational Physics, 2016, 321, 242-258.	3.8	70
81	Uncertainty quantification in computational linear structural dynamics for viscoelastic composite structures. Computer Methods in Applied Mechanics and Engineering, 2016, 305, 154-172.	6.6	30
82	Sensitivity of train stochastic dynamics to long-term evolution of track irregularities. Vehicle System Dynamics, 2016, 54, 545-567.	3.7	12
83	Stochastic continuum modeling of random interphases from atomistic simulations. Application to a polymer nanocomposite. Computer Methods in Applied Mechanics and Engineering, 2016, 303, 430-449.	6.6	59
84	Uncertainty Quantification for Nonlinear Reduced-Order Elasto-Dynamics Computational Models. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 83-90.	0.5	0
85	Robust Design in Multibody Dynamics â€" Application to Vehicle Ride-comfort Optimization. Procedia IUTAM, 2015, 13, 90-97.	1.2	7
86	Random Matrix Models and Nonparametric Method for Uncertainty Quantification. , 2015, , 1-69.		8
87	Random Vectors and Random Fields in High Dimension: Parametric Model-Based Representation, Identification from Data, and Inverse Problems. , 2015, , 1-53.		4
88	Polynomial Chaos Expansion of a Multimodal Random Vector. SIAM-ASA Journal on Uncertainty Quantification, 2015, 3, 34-60.	2.0	43
89	Uncertainty Quantification for an Industrial Mistuned Bladed Disk With Geometrical Nonlinearities. , 2015, , .		2
90	Vibration of structures containing compressible liquids with surface tension and sloshing effects. Reduced-order model. Computational Mechanics, 2015, 55, 1071-1078.	4.0	18

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91	Modeling of transient wave propagation in a heterogeneous solid layer coupled with fluid: Application to long bones. Journal of the Acoustical Society of America, 2015, 137, 668-678.	1.1	6
92	Quantification of the influence of the track geometry variability on the train dynamics. Mechanical Systems and Signal Processing, 2015, 60-61, 945-957.	8.0	24
93	Multilevel reduced-order computational model in structural dynamics for the low- and medium-frequency ranges. Computers and Structures, 2015, 160, 111-125.	4.4	7
94	Computational modeling of the nonlinear stochastic dynamics of horizontal drillstrings. Computational Mechanics, 2015, 56, 849-878.	4.0	29
95	Mistuning analysis and uncertainty quantification of an industrial bladed disk with geometrical nonlinearity. Journal of Sound and Vibration, 2015, 356, 124-143.	3.9	24
96	Robust design optimization with an uncertain model of a nonlinear vibro-impact electro-mechanical system. Communications in Nonlinear Science and Numerical Simulation, 2015, 23, 263-273.	3.3	8
97	Model identification in computational stochastic dynamics using experimental modal data. Mechanical Systems and Signal Processing, 2015, 50-51, 307-322.	8.0	19
98	MULTISCALE IDENTIFICATION OF THE RANDOM ELASTICITY FIELD AT MESOSCALE OF A HETEROGENEOUS MICROSTRUCTURE USING MULTISCALE EXPERIMENTAL OBSERVATIONS. International Journal for Multiscale Computational Engineering, 2015, 13, 281-295.	1.2	14
99	REMARKS ON STOCHASTIC PROPERTIES OF MATERIALS THROUGH FINITE DEFORMATIONS. International Journal for Multiscale Computational Engineering, 2015, 13, 367-374.	1.2	6
100	Computational Geometrically Nonlinear Vibration Analysis of Uncertain Mistuned Bladed Disks. , 2014, , .		0
101	A Posteriori Error and Optimal Reduced Basis for Stochastic Processes Defined by a Finite Set of Realizations. SIAM-ASA Journal on Uncertainty Quantification, 2014, 2, 745-762.	2.0	16
102	Itô SDE--based Generator for a Class of Non-Gaussian Vector-valued Random Fields in Uncertainty Quantification. SIAM Journal of Scientific Computing, 2014, 36, A2763-A2786.	2.8	19
103	Random field representations for stochastic elliptic boundary value problems and statistical inverse problems. European Journal of Applied Mathematics, 2014, 25, 339-373.	2.9	33
104	Generation of accelerograms compatible with design specifications using information theory. Bulletin of Earthquake Engineering, 2014, 12, 769-794.	4.1	3
105	Post-buckling nonlinear static and dynamical analyses of uncertain cylindrical shells and experimental validation. Computer Methods in Applied Mechanics and Engineering, 2014, 271, 210-230.	6.6	41
106	Variational-Based Reduced-Order Model in Dynamic Substructuring of Coupled Structures Through a Dissipative Physical Interface: Recent Advances. Archives of Computational Methods in Engineering, 2014, 21, 321-329.	10.2	13
107	A coupling method for stochastic continuum models at different scales. Probabilistic Engineering Mechanics, 2014, 37, 138-147.	2.7	4
108	Dynamic stability of a pipe conveying fluid with an uncertain computational model. Journal of Fluids and Structures, 2014, 49, 412-426.	3.4	46

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109	Clarification about Component Mode Synthesis Methods for Substructures with Physical Flexible Interfaces. International Journal of Aeronautical and Space Sciences, 2014, 15, 113-122.	2.0	9
110	Identification of a Mesoscale Model with Multiscale Experimental Observations. , 2014, , 119-131.		0
111	Ultrasound Wave Propagation in a Stochastic Cortical Bone Plate. Advances in Intelligent Systems and Computing, 2014, , 435-443.	0.6	0
112	Stochastic modeling and identification of an uncertain computational dynamical model with random fields properties and model uncertainties. Archive of Applied Mechanics, 2013, 83, 831-848.	2.2	18
113	Computational strategy for the crash design analysis using an uncertain computational mechanical model. Computational Mechanics, 2013, 52, 453-462.	4.0	4
114	Robust Analysis of Design in Vibration of Turbomachines. Journal of Turbomachinery, 2013, 135, .	1.7	17
115	Reduced-order computational model in nonlinear structural dynamics for structures having numerous local elastic modes in the low-frequency range. Application to fuel assemblies. Nuclear Engineering and Design, 2013, 262, 276-284.	1.7	3
116	Nonparametric Stochastic Modeling of Structures with Uncertain Boundary Conditions/Coupling Between Substructures. AIAA Journal, 2013, 51, 1296-1308.	2.6	36
117	Stochastic framework for modeling the linear apparent behavior of complex materials: Application to random porous materials with interphases. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 773-782.	3.4	33
118	Hybrid Sampling/Spectral Method for Solving Stochastic Coupled Problems. SIAM-ASA Journal on Uncertainty Quantification, 2013, 1, 218-243.	2.0	19
119	Calculation of Lagrange Multipliers in the Construction of Maximum Entropy Distributions in High Stochastic Dimension. SIAM-ASA Journal on Uncertainty Quantification, 2013, 1, 431-451.	2.0	20
120	Uncertainty quantification in computational stochastic multiscale analysis of nonlinear elastic materials. Computer Methods in Applied Mechanics and Engineering, 2013, 254, 61-82.	6.6	71
121	Bayesian posteriors of uncertainty quantification in computational structural dynamics for low-and medium-frequency ranges. Computers and Structures, 2013, 126, 41-55.	4.4	20
122	Uncertainty quantification of voice signal production mechanical model and experimental updating. Mechanical Systems and Signal Processing, 2013, 40, 718-726.	8.0	19
123	Track irregularities stochastic modeling. Probabilistic Engineering Mechanics, 2013, 34, 123-130.	2.7	57
124	Karhunen–Loève expansion revisited for vector-valued random fields: Scaling, errors and optimal basis.. Journal of Computational Physics, 2013, 242, 607-622.	3.8	28
125	Prior Representations of Random Fields for Stochastic Multiscale Modeling. Procedia IUTAM, 2013, 6, 44-49.	1.2	0
126	Stochastic reduced order computational model of structures having numerous local elastic modes in low frequency dynamics. Journal of Sound and Vibration, 2013, 332, 3667-3680.	3.9	13

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127	Robustness analysis of an uncertain computational model to predict well integrity for geologic CO_2 sequestration. Computational Geosciences, 2013, 17, 307-323.	2.4	4
128	Computational Nonlinear Thermomechanical Model of Large Light Partition Walls Based on Experimental Analysis and Probabilistic Models. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 81-97.	9.8	1
129	Stochastic modeling of uncertainties in computational structural dynamicsâ€"Recent theoretical advances. Journal of Sound and Vibration, 2013, 332, 2379-2395.	3.9	124
130	On the Statistical Dependence for the Components of Random Elasticity Tensors Exhibiting Material Symmetry Properties. Journal of Elasticity, 2013, 111, 109-130.	1.9	75
131	Stochastic multiscale modelling of elastic properties of bone ultrastructure. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 334-336.	1.6	1
132	Stochastic Model and Generator for Random Fields with Symmetry Properties: Application to the Mesoscopic Modeling of Elastic Random Media. Multiscale Modeling and Simulation, 2013, 11, 840-870.	1.6	59
133	UNCERTAINTY QUANTIFICATION IN LOW-FREQUENCY DYNAMICS OF COMPLEX BEAM-LIKE STRUCTURES HAVING A HIGH-MODAL DENSITY. , 2013, 3, 475-485.		2
134	Random Dynamical Response of a Multibody System with Uncertain Rigid Bodies. Computational Methods in Applied Sciences (Springer), 2013, , 1-14.	0.3	0
135	Reduced-Order Computational Model for Low-Frequency Dynamics of Automobiles. Advances in Mechanical Engineering, 2013, 5, 310362.	1.6	1
136	Non-Concurrent Computational Homogenization of Nonlinear, Stochastic and Viscoelastic Materials. , 2013, , .		0
137	Special Issue on Computational Intelligence in Structural Engineering and Mechanics. Computer-Aided Civil and Infrastructure Engineering, 2012, 27, 639-639.	9.8	0
138	Identification of Polynomial Chaos Representations in High Dimension from a Set of Realizations. SIAM Journal of Scientific Computing, 2012, 34, A2917-A2945.	2.8	39
139	Probabilistic model of the human cortical bone with mechanical alterations in ultrasonic range. Mechanical Systems and Signal Processing, 2012, 32, 170-177.	8.0	24
140	Time-domain formulation in computational dynamics for linear viscoelastic media with model uncertainties and stochastic excitation. Computers and Mathematics With Applications, 2012, 64, 3594-3612.	2.7	41
141	Computational nonlinear stochastic homogenization using a nonconcurrent multiscale approach for hyperelastic heterogeneous microstructures analysis. International Journal for Numerical Methods in Engineering, 2012, 91, 799-824.	2.8	79
142	Stochastic modeling of anisotropy in multiscale analysis of heterogeneous materials: A comprehensive overview on random matrix approaches. Mechanics of Materials, 2012, 44, 35-46.	3.2	12
143	Probabilistic modeling of apparent tensors in elastostatics: A MaxEnt approach under material symmetry and stochastic boundedness constraints. Probabilistic Engineering Mechanics, 2012, 28, 118-124.	2.7	12
144	Stochastic representation for anisotropic permeability tensor random fields. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 1592-1608.	3.3	24

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145	Generalized stochastic approach for constitutive equation in linear elasticity: a random matrix model. International Journal for Numerical Methods in Engineering, 2012, 90, 613-635.	2.8	30
146	Rigid multibody system dynamics with uncertain rigid bodies. Multibody System Dynamics, 2012, 27, 285-319.	2.7	42
147	Computational stochastic statics of an uncertain curved structure with geometrical nonlinearity in three-dimensional elasticity. Computational Mechanics, 2012, 49, 87-97.	4.0	35
148	Stochastic Models of Uncertainties in Computational Structural Dynamics and Structural Acoustics. , 2012, , 61-113.		5
149	Advanced Computational Dissipative Structural Acoustics and Fluid-Structure Interaction in Low-and Medium-Frequency Domains. Reduced-Order Models and Uncertainty Quantification. International Journal of Aeronautical and Space Sciences, 2012, 13, 127-153.	2.0	18
150	A computational inverse method for identification of non-Gaussian random fields using the Bayesian approach in very high dimension. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3083-3099.	6.6	55
151	Nonâ€Gaussian positiveâ€definite matrixâ€valued random fields with constrained eigenvalues: Application to random elasticity tensors with uncertain material symmetries. International Journal for Numerical Methods in Engineering, 2011, 88, 1128-1151.	2.8	23
152	A probabilistic model for bounded elasticity tensor random fields with application to polycrystalline microstructures. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1637-1648.	6.6	75
153	Experimental identification of an uncertain computational dynamical model representing a family of structures. Computers and Structures, 2011, 89, 1440-1448.	4.4	22
154	Structural partitioning of complex structures in the medium-frequency range. An application to an automotive vehicle. Journal of Sound and Vibration, 2011, 330, 937-946.	3.9	28
155	On the determination of the power spectrum of randomly excited oscillators via stochastic averaging: An alternative perspective. Probabilistic Engineering Mechanics, 2011, 26, 10-15.	2.7	26
156	Equivalent contributing depth investigated by a lateral wave with axial transmission in viscoelastic cortical bone. Journal of the Acoustical Society of America, 2011, 129, EL114-EL120.	1.1	14
157	Stochastic Reduced-Order Model in Low-Frequency Dynamics in Presence of Numerous Local Elastic Modes. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	2.2	14
158	Computational Model for Long-Range Non-Linear Propagation over Urban Cities. Acta Acustica United With Acustica, 2010, 96, 884-898.	0.8	5
159	A Reduced-Order Model of Detuned Cyclic Dynamical Systems With Geometric Modifications Using a Basis of Cyclic Modes. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	38
160	Some aspects of probabilistic modeling, identification and propagation of uncertainties in computational mechanics. European Journal of Computational Mechanics, 2010, 19, 25-40.	0.6	2
161	Probabilistic model identification of the bitâ€"rock-interaction-model uncertainties in nonlinear dynamics of a drill-string. Mechanics Research Communications, 2010, 37, 584-589.	1.8	28
162	Robust optimization of the rate of penetration of a drill-string using a stochastic nonlinear dynamical model. Computational Mechanics, 2010, 45, 415-427.	4.0	48

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163	Generalized probabilistic approach of uncertainties in computational dynamics using random matrices and polynomial chaos decompositions. International Journal for Numerical Methods in Engineering, 2010, 81, 939-970.	2.8	69
164	Identification of Bayesian posteriors for coefficients of chaos expansions. Journal of Computational Physics, 2010, 229, 3134-3154.	3.8	91
165	Identification of high-dimension polynomial chaos expansions with random coefficients for non-Gaussian tensor-valued random fields using partial and limited experimental data. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2150-2164.	6.6	73
166	A stochastic model for elasticity tensors with uncertain material symmetries. International Journal of Solids and Structures, 2010, 47, 3121-3130.	2.7	24
167	Information Theory for Generation of Accelerograms Associated with Shock Response Spectra. Computer-Aided Civil and Infrastructure Engineering, 2010, 25, 334-347.	9.8	7
168	Prior and posterior probabilistic models of uncertainties in a model for producing voice. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012195.	0.6	0
169	Stochastic dynamics of a drill-string with uncertain weight-on-hook. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2010, 32, 250-258.	1.6	13
170	Computational Aspects for Constructing Realizations of Polynomial Chaos in High Dimension. SIAM Journal of Scientific Computing, 2010, 32, 2820-2831.	2.8	28
171	Influence of viscoelastic and viscous absorption on ultrasonic wave propagation in cortical bone: Application to axial transmission. Journal of the Acoustical Society of America, 2010, 127, 2622-2634.	1.1	42
172	Sound-Insulation Layer Modelling in Car Computational Vibroacoustics in the Medium-Frequency Range. Acta Acustica United With Acustica, 2010, 96, 437-444.	0.8	21
173	Energy Density Field Approach for Low- and Medium-Frequency Vibroacoustic Analysis of a Car Body Using a Probabilistic Computational Model. , 2009, , .		1
174	Sound-Insulation Layers Low-Frequency Modeling, Using the Fuzzy Structure Theory. , 2009, , .		0
175	Nonlinear parabolic equation model for finite-amplitude sound propagation over porous ground layers. Journal of the Acoustical Society of America, 2009, 126, 572-581.	1.1	4
176	Fuzzy structure theory modeling of sound-insulation layers in complex vibroacoustic uncertain systems: Theory and experimental validation. Journal of the Acoustical Society of America, 2009, 125, 138-153.	1.1	19
177	Influence of a gradient of material properties on ultrasonic wave propagation in cortical bone: Application to axial transmission. Journal of the Acoustical Society of America, 2009, 125, 4043-4052.	1.1	58
178	Determination of the random anisotropic elasticity layer using transient wave propagation in a fluid-solid multilayer: Model and experiments. Journal of the Acoustical Society of America, 2009, 125, 2027-2034.	1.1	29
179	Time-domain model of the ultrasonic wave propagation in an inhomogeneous anisotropic viscoelastic fluid/solid multilayer medium: application to cortical bone. , 2009, , .		0
180	Robust Analysis of Design in Vibration of Turbomachines. , 2009, , .		4

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