

Jean-François De

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

2,419
citations

201658

27
h-index

223791

46
g-index

94
all docs

94
docs citations

94
times ranked

1302
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical analogs of curved beams and application to piezoelectric network damping. <i>Mathematics and Mechanics of Solids</i> , 2022, 27, 578-601.	2.4	19
2	Vibration prediction of rotating composite fan blades comprising viscoelastic damping treatments. <i>Journal of Sound and Vibration</i> , 2022, 536, 117135.	3.9	5
3	Effect of parametric uncertainties on vibration mitigation with periodically distributed and interconnected piezoelectric patches. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 971-985.	2.5	3
4	Vibration damping of marine lifting surfaces with resonant piezoelectric shunts. <i>Journal of Sound and Vibration</i> , 2021, 496, 115921.	3.9	17
5	Dynamics of piezoelectric structures with geometric nonlinearities: A non-intrusive reduced order modelling strategy. <i>Computers and Structures</i> , 2021, 253, 106575.	4.4	8
6	An analogue twin for piezoelectric vibration damping of multiple nonlinear resonances. <i>Journal of Sound and Vibration</i> , 2021, 511, 116323.	3.9	5
7	Experimental analysis of nonlinear resonances in piezoelectric plates with geometric nonlinearities. <i>Nonlinear Dynamics</i> , 2020, 102, 1451-1462.	5.2	8
8	Non-intrusive reduced order modelling for the dynamics of geometrically nonlinear flat structures using three-dimensional finite elements. <i>Computational Mechanics</i> , 2020, 66, 1293-1319.	4.0	39
9	Viscoelastic behavior of polymeric foams: Experiments and modeling. <i>Mechanics of Materials</i> , 2020, 148, 103506.	3.2	21
10	Broadband vibration damping of non-periodic plates by piezoelectric coupling to their electrical analogues. <i>Smart Materials and Structures</i> , 2020, 29, 054001.	3.5	16
11	Smart structures and materials: Vibration and control. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 1109-1109.	2.6	0
12	A General Framework for Time Domain Finite Element Analysis of Viscoelastically Damped Structures. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 383-385.	0.5	0
13	Comments on the paper "On nonlinear dynamics behavior of an electro-mechanical pendulum excited by a nonideal motor and a chaos control taking into account parametric errors" published in this journal. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	6
14	On the interest of a space-time regularization for reconstructing sparse excitation sources. <i>Journal of Physics: Conference Series</i> , 2019, 1264, 012053.	0.4	0
15	On the frequency response computation of geometrically nonlinear flat structures using reduced-order finite element models. <i>Nonlinear Dynamics</i> , 2019, 97, 1747-1781.	5.2	49
16	Nonlinear equilibrium of partially liquid-filled tanks: A finite element/level-set method to handle hydrostatic follower forces. <i>International Journal of Non-Linear Mechanics</i> , 2019, 113, 112-127.	2.6	5
17	On a space-time regularization for force reconstruction problems. <i>Mechanical Systems and Signal Processing</i> , 2019, 118, 549-567.	8.0	23
18	Experimental and Numerical Analysis of Sound Transmission Loss Through Double Glazing Windows. <i>Applied Condition Monitoring</i> , 2019, , 195-203.	0.4	5

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19	Practical issues on the applicability of Kalman filtering for reconstructing mechanical sources in structural dynamics. <i>Journal of Sound and Vibration</i> , 2019, 442, 45-70.	3.9	30
20	Reduced order finite element formulations for vibration reduction using piezoelectric shunt damping. <i>Applied Acoustics</i> , 2019, 147, 111-120.	3.3	34
21	Electromechanical wave finite element method for interconnected piezoelectric waveguides. <i>Computers and Structures</i> , 2018, 199, 46-56.	4.4	7
22	Reduced order models for dynamic behavior of elastomer damping devices. <i>Finite Elements in Analysis and Design</i> , 2018, 143, 66-75.	3.2	8
23	Design of a passive electrical analogue for piezoelectric damping of a plate. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1301-1314.	2.5	9
24	Passive self-tuning inductor for piezoelectric shunt damping considering temperature variations. <i>Journal of Sound and Vibration</i> , 2018, 432, 105-118.	3.9	16
25	A fully passive nonlinear piezoelectric vibration absorber. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170142.	3.4	33
26	Interface finite elements for the modelling of constrained viscoelastic layers. <i>Composite Structures</i> , 2018, 204, 847-854.	5.8	11
27	An efficient FE approach for attenuation of acoustic radiation of thin structures by using passive shunted piezoelectric systems. <i>Applied Acoustics</i> , 2017, 128, 3-13.	3.3	13
28	Design of inductors with high inductance values for resonant piezoelectric damping. <i>Sensors and Actuators A: Physical</i> , 2017, 259, 68-76.	4.1	39
29	A comparison of model reduction techniques based on modal projection for structures with frequency-dependent damping. <i>Mechanical Systems and Signal Processing</i> , 2017, 90, 110-125.	8.0	51
30	Time-domain analysis of viscoelastic systems. <i>Procedia Engineering</i> , 2017, 199, 384-390.	1.2	3
31	Non-linear finite element analysis of an elastic structure loaded by hydrostatic follower forces. <i>Procedia Engineering</i> , 2017, 199, 1302-1307.	1.2	2
32	Vibration reduction of a woven composite fan blade by piezoelectric shunted devices. <i>Journal of Physics: Conference Series</i> , 2016, 744, 012164.	0.4	2
33	Comparison of passive inductor designs for piezoelectric shunt damping. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
34	Inverse characterisation of frequency-dependent properties of adhesives. <i>Journal of Physics: Conference Series</i> , 2016, 744, 012193.	0.4	1
35	Reduced Order Models for Dynamic Behavior of Elastomer Damping Devices. <i>Journal of Physics: Conference Series</i> , 2016, 744, 012134.	0.4	0
36	Multimodal Damping of a Plate with a Passive Piezoelectric Network. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 111-117.	0.5	1

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37	Hardening/softening behavior and reduced order modeling of nonlinear vibrations of rotating cantilever beams. <i>Nonlinear Dynamics</i> , 2016, 86, 1293-1318.	5.2	71
38	Multimodal vibration damping of a plate by piezoelectric coupling to its analogous electrical network. <i>Smart Materials and Structures</i> , 2016, 25, 115042.	3.5	39
39	Robustness of a multimodal piezoelectric damping involving the electrical analogue of a plate. , 2016, , .		1
40	On the Use of Transfer Approaches to Predict the Vibroacoustic Response of Poroelastic Media. <i>Journal of Computational Acoustics</i> , 2016, 24, 1550020.	1.0	4
41	Vibroacoustic analysis of double-wall sandwich panels with viscoelastic core. <i>Computers and Structures</i> , 2016, 174, 92-103.	4.4	55
42	Finite element reduced order model for noise and vibration reduction of double sandwich panels using shunted piezoelectric patches. <i>Applied Acoustics</i> , 2016, 108, 40-49.	3.3	24
43	TRANSVERSE WAVE PROPAGATION IN A ONE-DIMENSIONAL STRUCTURE COUPLED TO ITS ELECTRICAL ANALOGUE: COMPARISON OF TRANSFER MATRIX MODELS. , 2016, , .		1
44	REDUCED ORDER MODELS FOR DYNAMIC BEHAVIOR OF PRESTRESSED ELASTOMER DAMPING DEVICES. , 2016, , .		0
45	Multimodal vibration damping through a periodic array of piezoelectric patches connected to a passive network. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
46	Wafer-scale fabrication of self-actuated piezoelectric nanoelectromechanical resonators based on lead zirconate titanate (PZT). <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 035002.	2.6	19
47	Multimodal coupling of periodic lattices and application to rod vibration damping with a piezoelectric network. <i>Smart Materials and Structures</i> , 2015, 24, 045018.	3.5	19
48	Multimodal vibration damping of a beam with a periodic array of piezoelectric patches connected to a passive electrical network. <i>Smart Materials and Structures</i> , 2015, 24, 115037.	3.5	44
49	Wave properties in poroelastic media using a Wave Finite Element Method. <i>Journal of Sound and Vibration</i> , 2015, 335, 125-146.	3.9	20
50	Topology optimization of shunted piezoelectric elements for structural vibration reduction. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1219-1235.	2.5	18
51	An Analytical Solution for Vibration Reduction of a Thin Rectangular Plate Using Shunted Piezoelectric Patches. <i>Lecture Notes in Mechanical Engineering</i> , 2015, , 585-595.	0.4	0
52	Piezoelectric Shunt Vibration Damping of Structural-Acoustic Systems: Finite Element Formulation and Reduced-Order Model. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2014, 136, .	1.6	21
53	A finite element approach combining a reduced-order system, Padé approximants, and an adaptive frequency windowing for fast multi-frequency solution of poroacoustic problems. <i>International Journal for Numerical Methods in Engineering</i> , 2014, 97, 759-784.	2.8	16
54	Coupled FEM/BEM for control of noise radiation and sound transmission using piezoelectric shunt damping. <i>Applied Acoustics</i> , 2014, 86, 146-153.	3.3	23

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55	Application of Kramersâ€™Kronig relations to timeâ€™temperature superposition for viscoelastic materials. <i>Mechanics of Materials</i> , 2013, 65, 66-75.	3.2	77
56	Vibroacoustic response sensitivity due to relative alignment of two anisotropic poro-elastic layers. <i>Journal of the Acoustical Society of America</i> , 2013, 133, EL426-EL430.	1.1	6
57	A residue-based mode selection and sorting procedure for efficient poroelastic modeling in acoustic finite element applications. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 4730-4741.	1.1	10
58	Coupled Finite Element-Boundary Element Formulation for Noise and Vibration Attenuation Using Shunt Piezoelectric Materials. <i>Lecture Notes in Mechanical Engineering</i> , 2013, , 127-134.	0.4	0
59	A modal-based reduction method for sound absorbing porous materials in poro-acoustic finite element models. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 3162-3179.	1.1	21
60	Performance of piezoelectric shunts for vibration reduction. <i>Smart Materials and Structures</i> , 2012, 21, 015008.	3.5	141
61	Finite element reduced order models for nonlinear vibrations of piezoelectric layered beams with applications to NEMS. <i>Finite Elements in Analysis and Design</i> , 2012, 49, 35-51.	3.2	78
62	Finite element formulation of smart piezoelectric composite plates coupled with acoustic fluid. <i>Composite Structures</i> , 2012, 94, 501-509.	5.8	50
63	Vibro-acoustic study of a viscoelastic sandwich ring immersed in water. <i>Journal of Sound and Vibration</i> , 2012, 331, 522-539.	3.9	21
64	Placement and dimension optimization of shunted piezoelectric patches for vibration reduction. <i>Journal of Sound and Vibration</i> , 2012, 331, 3286-3303.	3.9	98
65	Performance of a restrained-interface substructuring FE model for reduction of structural-acoustic problems with poroelastic damping. <i>Computers and Structures</i> , 2011, 89, 2233-2248.	4.4	13
66	A 3D state-space solution for free-vibration analysis of a radially polarized laminated piezoelectric cylinder filled with fluid. <i>Journal of Sound and Vibration</i> , 2011, 330, 162-181.	3.9	10
67	Simulation of fractionally damped mechanical systems by means of a Newmark-diffusive scheme. <i>Computers and Mathematics With Applications</i> , 2010, 59, 1745-1753.	2.7	44
68	Structural Vibration Reduction by Switch Shunting of Piezoelectric Elements: Modeling and Optimization. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 797-816.	2.5	50
69	Structural-Acoustic Vibration Reduction Using Switched Shunt Piezoelectric Patches: A Finite Element Analysis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2010, 132, .	1.6	21
70	Vibrations of an elastic structure with shunted piezoelectric patches: efficient finite element formulation and electromechanical coupling coefficients. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 80, 235-268.	2.8	119
71	Dynamic responses of flexible-link mechanisms with passive/active damping treatment. <i>Computers and Structures</i> , 2008, 86, 258-265.	4.4	42
72	Piezoelectric structural acoustic problems: Symmetric variational formulations and finite element results. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 1715-1724.	6.6	33

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73	Vibration and transient response of structural-acoustic interior coupled systems with dissipative interface. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 4894-4905.	6.6	19
74	Absorbing interfaces in structural-acoustic coupled problems. European Journal of Computational Mechanics, 2008, 17, 677-688.	0.6	1
75	Vibration Reduction of Structural-Acoustic Systems Using Synchronized Switch Damping Techniques. , 2008, , .		0
76	The Grünwaldt-scheme for Approximation of Fractional Derivatives: Application to the Dynamics of Dissipative Systems. JVC/Journal of Vibration and Control, 2008, 14, 1597-1605.	2.6	10
77	Variational Formulations of Interior Structural-Acoustic Vibration Problems. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2008, , 1-21.	0.6	2
78	Hybrid Active-passive Damping Treatment of Sandwich Beams in Non-linear Dynamics. JVC/Journal of Vibration and Control, 2007, 13, 851-881.	2.6	5
79	Structural Vibration Reduction Optimization by Switch Shunting of Piezoelectric Elements. , 2007, , 339.		1
80	Vibration of axisymmetric composite piezoelectric shells coupled with internal fluid. International Journal for Numerical Methods in Engineering, 2007, 71, 1412-1435.	2.8	20
81	An adaptation of the Gear scheme for fractional derivatives. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 6073-6085.	6.6	24
82	A new finite element formulation for internal acoustic problems with dissipative walls. International Journal for Numerical Methods in Engineering, 2006, 68, 381-399.	2.8	18
83	Formulation Éléments finis de problèmes Élastoacoustiques avec interface dissipative. European Journal of Computational Mechanics, 2006, 15, 245-256.	0.6	0
84	Free-vibration analysis of laminated plates with embedded shear-mode piezoceramic layers. International Journal of Solids and Structures, 2005, 42, 2059-2088.	2.7	33
85	A Fractional Derivative Viscoelastic Model for Hybrid Active-Passive Damping Treatments in Time Domain - Application to Sandwich Beams. Journal of Intelligent Material Systems and Structures, 2005, 16, 33-45.	2.5	52
86	Atténuation des vibrations de structures par traitement piézoélectrique/viscoélastique en utilisant un modèle Éléments fractionnaires. Revue Européenne Des Elements, 2004, 13, 509-521.	0.1	1
87	Finite element formulation of viscoelastic sandwich beams using fractional derivative operators. Computational Mechanics, 2004, 33, 282-291.	4.0	200
88	Free vibrations of simply-supported piezoelectric adaptive plates: an exact sandwich formulation. Thin-Walled Structures, 2002, 40, 573-593.	5.3	81
89	A two-dimensional closed-form solution for the free-vibrations analysis of piezoelectric sandwich plates. International Journal of Solids and Structures, 2002, 39, 1463-1486.	2.7	51
90	Piezoelectric Transverse Shear Actuation and Sensing of Plates, Part 2: Application and Analysis. Journal of Intelligent Material Systems and Structures, 2001, 12, 451-467.	2.5	21

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91	Piezoelectric Transverse Shear Actuation and Sensing of Plates, Part 1: A Three-Dimensional Mixed State Space Formulation. <i>Journal of Intelligent Material Systems and Structures</i> , 2001, 12, 435-449.	2.5	34
92	A mesomodel for localisation and damage computation in laminates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 183, 105-122.	6.6	140