

Patrice Cartraud

List of Publications by Year in descending order

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55
papers

2,268
citations

257450

24
h-index

223800

46
g-index

57
all docs

57
docs citations

57
times ranked

1487
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-dimensional formulation for the homogenization of helical beam-like structures under bending loads. <i>International Journal of Solids and Structures</i> , 2022, 234-235, 111270.	2.7	3
2	Dynamic ultimate strength of a ultra-large container ship subjected to realistic loading scenarios. <i>Marine Structures</i> , 2022, 84, 103197.	3.8	6
3	A parametric study on the dynamic ultimate strength of a stiffened panel subjected to wave- and whipping-induced stresses. <i>Ships and Offshore Structures</i> , 2021, 16, 1025-1039.	1.9	9
4	Elastic guided waves in helical multi-wire armors. <i>Ultrasonics</i> , 2021, 110, 106294.	3.9	5
5	Investigation of the nonlinear slamming-induced whipping response of ships using a fully-coupled hydroelastoplastic method. <i>Ocean Engineering</i> , 2021, 238, 109751.	4.3	4
6	Solid and 3D beam finite element models for the nonlinear elastic analysis of helical strands within a computational homogenization framework. <i>Computers and Structures</i> , 2021, 257, 106675.	4.4	10
7	Dynamic Ultimate Strength of a Container Ship Under Sagging Condition. , 2020, , .		0
8	Dynamic modeling of nylon mooring lines for a floating wind turbine. <i>Applied Ocean Research</i> , 2019, 87, 1-8.	4.1	35
9	Numerical investigation on dynamic ultimate strength of stiffened panels considering real loading scenarios. <i>Ships and Offshore Structures</i> , 2019, 14, 374-386.	1.9	10
10	Methodology for modeling and service life monitoring of mooring lines of floating wind turbines. <i>Ocean Engineering</i> , 2019, 193, 106603.	4.3	11
11	Phenomenological modeling of abradable wear in turbomachines. <i>Mechanical Systems and Signal Processing</i> , 2018, 98, 770-785.	8.0	19
12	Justification of the Asymptotic Expansion Method for Homogeneous Isotropic Beams by Comparison with De Saint-Venant's Solutions. <i>Journal of Elasticity</i> , 2017, 126, 245-270.	1.9	4
13	Abradable Coating Removal in Turbomachines: A Macroscopic Approach Accounting for Several Wear Mechanisms. , 2015, , .		2
14	Transient heat conduction within periodic heterogeneous media: A space-time homogenization approach. <i>International Journal of Thermal Sciences</i> , 2015, 92, 217-229.	4.9	21
15	Assessment of 3D modeling for rotor-stator contact simulations. <i>Journal of Sound and Vibration</i> , 2015, 353, 327-343.	3.9	3
16	A beam to $\langle \mathbf{m} \mathbf{m} \mathbf{l} \mathbf{:} \mathbf{m} \mathbf{a} \mathbf{t} \mathbf{h} \mathbf{a} \mathbf{l} \mathbf{i} \mathbf{m} \mathbf{g} = \mathbf{''} \mathbf{s} \mathbf{i} \mathbf{1} \mathbf{7} \mathbf{.} \mathbf{g} \mathbf{i} \mathbf{f} \mathbf{''} \mathbf{ \rangle}$ overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	5.3	1
17	A beam to 3D model switch in transient dynamic analysis. <i>Finite Elements in Analysis and Design</i> , 2014, 91, 95-107.	3.2	2
18	Rotor to stator contacts in turbomachines. Review and application. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 401-420.	8.0	163

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19	Tensor-based methods for numerical homogenization from high-resolution images. Computer Methods in Applied Mechanics and Engineering, 2013, 254, 154-169.	6.6	14
20	Mechanical modeling of helical structures accounting for translational invariance. Part 2 : Guided wave propagation under axial loads. International Journal of Solids and Structures, 2013, 50, 1383-1393.	2.7	25
21	Modeling of thermophysical properties in heterogeneous periodic media according to a multi-scale approach: Effective conductivity tensor and edge effects. International Journal of Heat and Mass Transfer, 2013, 62, 586-603.	4.8	25
22	Mechanical modeling of helical structures accounting for translational invariance. Part 1: Static behavior. International Journal of Solids and Structures, 2013, 50, 1373-1382.	2.7	45
23	Image-based computational homogenization and localization: comparison between X-FEM/levelset and voxel-based approaches. Computational Mechanics, 2013, 51, 279-293.	4.0	52
24	Thermal properties of composite materials : effective conductivity tensor and edge effects. Journal of Physics: Conference Series, 2012, 395, 012014.	0.4	7
25	Full three-dimensional investigation of structural contact interactions in turbomachines. Journal of Sound and Vibration, 2012, 331, 2578-2601.	3.9	76
26	Effect of axial load on the propagation of elastic waves in helical beams. Wave Motion, 2011, 48, 83-92.	2.0	25
27	On the use of the extended finite element method with quadtree/octree meshes. International Journal for Numerical Methods in Engineering, 2011, 86, 717-743.	2.8	44
28	An X-FEM and level set computational approach for image-based modelling: Application to homogenization. International Journal for Numerical Methods in Engineering, 2011, 86, 915-934.	2.8	80
29	DERIVATION OF THE YOUNG'S AND SHEAR MODULI OF SINGLE-WALLED CARBON NANOTUBES THROUGH A COMPUTATIONAL HOMOGENIZATION APPROACH. International Journal for Multiscale Computational Engineering, 2011, 9, 97-118.	1.2	11
30	Recent advances in material homogenization. International Journal of Material Forming, 2010, 3, 899-902.	2.0	1
31	Routes for Efficient Computational Homogenization of Nonlinear Materials Using the Proper Generalized Decompositions. Archives of Computational Methods in Engineering, 2010, 17, 373-391.	10.2	54
32	Modeling of a rotor speed transient response with radial rubbing. Journal of Sound and Vibration, 2010, 329, 527-546.	3.9	69
33	Assessment of reduced models for the detection of modal interaction through rotor stator contacts. Journal of Sound and Vibration, 2010, 329, 5546-5562.	3.9	51
34	Multi-scale domain decomposition method for large-scale structural analysis with a zooming technique: Application to plate assembly. International Journal for Numerical Methods in Engineering, 2009, 79, 417-443.	2.8	25
35	Two-dimensional modeling of an aircraft engine structural bladed disk-casing modal interaction. Journal of Sound and Vibration, 2009, 319, 366-391.	3.9	73
36	A domain decomposition method for problems with structural heterogeneities on the interface: Application to a passenger ship. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3452-3463.	6.6	12

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37	Evaluation of Component Mode Synthesis Methods for the Detection of Modal Interaction Through Rotor Stator Contacts. , 2009, , .		1
38	Study of Component Mode Synthesis Methods in a Rotor-Stator Interaction Case. , 2007, , 1235.		10
39	Analytical modeling of synthetic fiber ropes. Part II: A linear elastic model for 1+6 fibrous structures. International Journal of Solids and Structures, 2007, 44, 2943-2960.	2.7	48
40	Analytical modeling of synthetic fiber ropes subjected to axial loads. Part I: A new continuum model for multilayered fibrous structures. International Journal of Solids and Structures, 2007, 44, 2924-2942.	2.7	49
41	Validity and limitations of linear analytical models for steel wire strands under axial loading, using a 3D FE model. International Journal of Mechanical Sciences, 2007, 49, 1251-1261.	6.7	129
42	Homogenization of helical beam-like structures: application to single-walled carbon nanotubes. Computational Mechanics, 2007, 41, 335-346.	4.0	15
43	Development of Beam-To-Beam Contact Detection Algorithms for Rotor-Stator Rubbing Applications. , 2007, , .		2
44	n-dimensional Harmonic Balance Method extended to non-explicit nonlinearities. European Journal of Computational Mechanics, 2006, 15, 269-280.	0.6	8
45	Computational homogenization of periodic beam-like structures. International Journal of Solids and Structures, 2006, 43, 686-696.	2.7	74
46	Application de la méthode X-FEM à la résolution de problèmes de micromécanique. Revue Européenne Des Elements, 2004, 13, 475-484.	0.1	0
47	A computational approach to handle complex microstructure geometries. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 3163-3177.	6.6	546
48	Homogenization of corrugated core sandwich panels. Composite Structures, 2003, 59, 299-312.	5.8	195
49	Prediction of transient engine loads and damage due to hollow fan blade-off. Revue Européenne Des Elements, 2002, 11, 651-666.	0.1	10
50	Higher-order effective modeling of periodic heterogeneous beams. I. Asymptotic expansion method. International Journal of Solids and Structures, 2001, 38, 7139-7161.	2.7	88
51	Higher-order effective modeling of periodic heterogeneous beams. II. Derivation of the proper boundary conditions for the interior asymptotic solution. International Journal of Solids and Structures, 2001, 38, 7163-7180.	2.7	48
52	Higher-order asymptotic model for a heterogeneous beam, including corrections due to end effects. , 2000, , .		10
53	Continuum modeling of beamlike lattice trusses using averaging methods. Computers and Structures, 1999, 73, 267-279.	4.4	35
54	Numerical modelling of the elastoplastic behaviour of a gasket material. Computational Materials Science, 1996, 5, 75-81.	3.0	0

#	ARTICLE	IF	CITATIONS
55	Experiments, numerical models and optimization of carbon-epoxy plates damped by a frequency-dependent interleaved viscoelastic layer. <i>Mechanics of Advanced Materials and Structures</i> , 0, , 1-19.	2.6	0