

Cristvo Manuel Mota Soares

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ext. citations

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#	Paper	IF	Citations
145	Static, free vibration and buckling analysis of isotropic and sandwich functionally graded plates using a quasi-3D higher-order shear deformation theory and a meshless technique. <i>Composites Part B: Engineering</i> , 2013 , 44, 657-674	10	352
144	A quasi-3D sinusoidal shear deformation theory for the static and free vibration analysis of functionally graded plates. <i>Composites Part B: Engineering</i> , 2012 , 43, 711-725	10	254
143	A quasi-3D hyperbolic shear deformation theory for the static and free vibration analysis of functionally graded plates. <i>Composite Structures</i> , 2012 , 94, 1814-1825	5.3	205
142	Modelling and design of adaptive composite structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 185, 325-346	5.7	129
141	Layerwise partial mixed finite element analysis of magneto-electro-elastic plates. <i>Computers and Structures</i> , 2004 , 82, 1293-1301	4.5	128
140	Free vibration analysis of functionally graded shells by a higher-order shear deformation theory and radial basis functions collocation, accounting for through-the-thickness deformations. <i>European Journal of Mechanics, A/Solids</i> , 2013 , 37, 24-34	3.7	127
139	Identification of material properties of composite plate specimens. <i>Composite Structures</i> , 1993 , 25, 277-285	3.5	126
138	A finite element model using a unified formulation for the analysis of viscoelastic sandwich laminates. <i>Composites Part B: Engineering</i> , 2013 , 45, 1258-1264	10	98
137	Active control of adaptive laminated structures with bonded piezoelectric sensors and actuators. <i>Computers and Structures</i> , 2004 , 82, 1349-1358	4.5	87
136	Analyses of magneto-electro-elastic plates using a higher order finite element model. <i>Composite Structures</i> , 2009 , 91, 421-426	5.3	80
135	Static analysis of functionally graded sandwich plates according to a hyperbolic theory considering Zig-Zag and warping effects. <i>Advances in Engineering Software</i> , 2012 , 52, 30-43	3.6	79
134	Bending of FGM plates by a sinusoidal plate formulation and collocation with radial basis functions. <i>Mechanics Research Communications</i> , 2011 , 38, 368-371	2.2	79
133	A semi-analytical finite element model for the analysis of cylindrical shells made of functionally graded materials under thermal shock. <i>Composite Structures</i> , 2008 , 86, 10-21	5.3	77
132	Geometrically non-linear analysis of composite structures with integrated piezoelectric sensors and actuators. <i>Composite Structures</i> , 2002 , 57, 253-261	5.3	74
131	Active control of axisymmetric shells with piezoelectric layers: a mixed laminated theory with a high order displacement field. <i>Computers and Structures</i> , 2002 , 80, 2265-2275	4.5	68
130	Analysis of laminated conical shell structures using higher order models. <i>Composite Structures</i> , 2003 , 62, 383-390	5.3	66
129	Optimal design and parameter estimation of frequency dependent viscoelastic laminated sandwich composite plates. <i>Composite Structures</i> , 2010 , 92, 2321-2327	5.3	64

128	Buckling analysis of isotropic and laminated plates by radial basis functions according to a higher-order shear deformation theory. <i>Thin-Walled Structures</i> , 2011 , 49, 804-811	4-7	62
127	Characterization of material parameters of composite plate specimens using optimization and experimental vibrational data. <i>Composites Part B: Engineering</i> , 1996 , 27, 185-191	10	62
126	Buckling and vibration analysis of isotropic and laminated plates by radial basis functions. <i>Composites Part B: Engineering</i> , 2011 , 42, 592-606	10	59
125	Multiobjective design of viscoelastic laminated composite sandwich panels. <i>Composites Part B: Engineering</i> , 2015 , 77, 391-401	10	58
124	A finite element model for the analysis of viscoelastic sandwich structures. <i>Computers and Structures</i> , 2011 , 89, 1874-1881	4-5	54
123	Modelling of piezolaminated plates using layerwise mixed finite elements. <i>Computers and Structures</i> , 2004 , 82, 1849-1863	4-5	54
122	A semi-analytical finite element model for the analysis of cylindrical shells made of functionally graded materials. <i>Composite Structures</i> , 2009 , 91, 427-432	5-3	53
121	Optimal design in vibration control of adaptive structures using a simulated annealing algorithm. <i>Composite Structures</i> , 2006 , 75, 79-87	5-3	52
120	Damping optimization of viscoelastic laminated sandwich composite structures. <i>Structural and Multidisciplinary Optimization</i> , 2009 , 39, 569-579	3-6	51
119	Combined numerical/experimental model for the identification of mechanical properties of laminated structures. <i>Composite Structures</i> , 2000 , 50, 363-372	5-3	50
118	Structural damage identification in laminated structures using FRF data. <i>Composite Structures</i> , 2005 , 67, 239-249	5-3	49
117	Finite Element Model for Hybrid Active-Passive Damping Analysis of Anisotropic Laminated Sandwich Structures. <i>Journal of Sandwich Structures and Materials</i> , 2010 , 12, 397-419	2-1	48
116	Development of a finite element model for the identification of mechanical and piezoelectric properties through gradient optimisation and experimental vibration data. <i>Composite Structures</i> , 2002 , 58, 307-318	5-3	48
115	Mathematical programming models and algorithms for engineering design optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005 , 194, 3244-3268	5-7	48
114	Sensitivity analysis and optimal design of geometrically non-linear laminated plates and shells. <i>Computers and Structures</i> , 2000 , 76, 407-420	4-5	43
113	Vibration analysis of laminated soft core sandwich plates with piezoelectric sensors and actuators. <i>Composite Structures</i> , 2016 , 151, 91-98	5-3	42
112	Layerwise mixed least-squares finite element models for static and free vibration analysis of multilayered composite plates. <i>Composite Structures</i> , 2010 , 92, 2328-2338	5-3	42
111	Buckling analysis of sandwich plates with functionally graded skins using a new quasi-3D hyperbolic sine shear deformation theory and collocation with radial basis functions. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2012 , 92, 749-766	1	41

110	Damage localization in laminated composite plates using mode shapes measured by pulsed TV holography. <i>Composite Structures</i> , 2006 , 76, 272-281	5.3	40
109	Active control of forced vibrations in adaptive structures using a higher order model. <i>Composite Structures</i> , 2005 , 71, 349-355	5.3	38
108	Buckling and dynamic behaviour of laminated composite structures using a discrete higher-order displacement model. <i>Computers and Structures</i> , 1999 , 73, 407-423	4.5	38
107	Buckling optimization of composite laminated adaptive structures. <i>Composite Structures</i> , 2003 , 62, 315-324	5.3	37
106	A finite element semi-analytical model for laminated axisymmetric shells: statics, dynamics and buckling. <i>Computers and Structures</i> , 2000 , 76, 299-317	4.5	37
105	Finite element model for damping optimization of viscoelastic sandwich structures. <i>Advances in Engineering Software</i> , 2013 , 66, 34-39	3.6	36
104	Analysis of functionally graded sandwich plate structures with piezoelectric skins, using B-spline finite strip method. <i>Composite Structures</i> , 2013 , 96, 606-615	5.3	36
103	Analysis of laminated adaptive plate structures using layerwise finite element models. <i>Computers and Structures</i> , 2004 , 82, 1939-1959	4.5	36
102	Material distribution and sizing optimization of functionally graded plate-shell structures. <i>Composites Part B: Engineering</i> , 2018 , 142, 263-272	10	35
101	A layerwise mixed least-squares finite element model for static analysis of multilayered composite plates. <i>Computers and Structures</i> , 2011 , 89, 1730-1742	4.5	35
100	Analysis of plates on Pasternak foundations by radial basis functions. <i>Computational Mechanics</i> , 2010 , 46, 791-803	4	33
99	Dynamic instability of variable stiffness composite plates. <i>Composite Structures</i> , 2017 , 182, 402-411	5.3	32
98	Estimation of piezoelectric and viscoelastic properties in laminated structures. <i>Composite Structures</i> , 2009 , 87, 168-174	5.3	32
97	Multiobjective optimization of ceramic-metal functionally graded plates using a higher order model. <i>Composite Structures</i> , 2018 , 183, 146-160	5.3	31
96	A Viscoelastic Sandwich Finite Element Model for the Analysis of Passive, Active and Hybrid Structures. <i>Applied Composite Materials</i> , 2010 , 17, 529-542	2	31
95	Development of a numerical model for the damage identification on composite plate structures. <i>Composite Structures</i> , 2000 , 48, 59-65	5.3	31
94	Optimal design of piezolaminated structures. <i>Composite Structures</i> , 1999 , 47, 625-634	5.3	31
93	Dynamic behaviour of soft core sandwich beam structures using kriging-based layerwise models. <i>Composite Structures</i> , 2015 , 134, 883-894	5.3	30

92	Higher order models on the eigenfrequency analysis and optimal design of laminated composite structures. <i>Composite Structures</i> , 1997 , 39, 237-253	5.3	30
91	A finite element model for the analysis of 3D axisymmetric laminated shells with piezoelectric sensors and actuators: Bending and free vibrations. <i>Computers and Structures</i> , 2008 , 86, 940-947	4.5	30
90	Parameter estimation in active plate structures. <i>Computers and Structures</i> , 2006 , 84, 1471-1479	4.5	30
89	Buckling behaviour of laminated composite structures using a discrete higher-order displacement model. <i>Composite Structures</i> , 1996 , 35, 75-92	5.3	30
88	Optimization of multilaminated structures using higher-order deformation models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997 , 149, 133-152	5.7	29
87	A finite element model for the analysis of 3D axisymmetric laminated shells with piezoelectric sensors and actuators. <i>Composite Structures</i> , 2006 , 75, 170-178	5.3	29
86	Multiobjective optimization of viscoelastic laminated sandwich structures using the Direct MultiSearch method. <i>Computers and Structures</i> , 2015 , 147, 229-235	4.5	28
85	Analysis of Active-Passive Plate Structures Using a Simple and Efficient Finite Element Model. <i>Mechanics of Advanced Materials and Structures</i> , 2011 , 18, 159-169	1.8	28
84	Assessment of mixed and displacement-based models for static analysis of composite beams of different cross-sections. <i>Composite Structures</i> , 2012 , 94, 601-616	5.3	26
83	A semi-analytical finite element model for the analysis of laminated 3D axisymmetric shells: Bending, free vibration and buckling. <i>Composite Structures</i> , 2005 , 71, 273-281	5.3	26
82	Refined models for the optimal design of adaptive structures using simulated annealing. <i>Composite Structures</i> , 2001 , 54, 161-167	5.3	26
81	Layerwise mixed models for analysis of multilayered piezoelectric composite plates using least-squares formulation. <i>Composite Structures</i> , 2015 , 119, 134-149	5.3	25
80	Analysis of piezolaminated plates by the spline finite strip method. <i>Computers and Structures</i> , 2001 , 79, 2321-2333	4.5	25
79	Three-dimensional exact hygro-thermo-elastic solutions for multilayered plates: Composite laminates, fibre metal laminates and sandwich plates. <i>Composite Structures</i> , 2019 , 216, 260-278	5.3	24
78	Optimal design for active damping in sandwich structures using the Direct MultiSearch method. <i>Composite Structures</i> , 2013 , 105, 29-34	5.3	24
77	Vibration analysis of functionally graded material sandwich structures with passive damping. <i>Composite Structures</i> , 2018 , 183, 407-415	5.3	23
76	Analysis of adaptive plate structures by mixed layerwise finite elements. <i>Composite Structures</i> , 2004 , 66, 269-276	5.3	23
75	A damage identification numerical model based on the sensitivity of orthogonality conditions and least squares techniques. <i>Computers and Structures</i> , 2000 , 78, 283-291	4.5	23

74	A discrete model for the optimal design of thin composite plate-shell type structures using a two-level approach. <i>Composite Structures</i> , 1995 , 30, 147-157	5.3	23
73	Assessment of a layerwise mixed least-squares model for analysis of multilayered piezoelectric composite plates. <i>Computers and Structures</i> , 2012 , 108-109, 14-30	4.5	22
72	Influence of zig-zag and warping effects on buckling of functionally graded sandwich plates according to sinusoidal shear deformation theories. <i>Mechanics of Advanced Materials and Structures</i> , 2017 , 24, 360-376	1.8	21
71	Benchmark exact solutions for the static analysis of multilayered piezoelectric composite plates using PVDF. <i>Composite Structures</i> , 2014 , 107, 389-395	5.3	21
70	A numerical-experimental method for damage location based on rotation fields spatial differentiation. <i>Computers and Structures</i> , 2011 , 89, 1754-1770	4.5	21
69	Structural Damage Identification: A Survey. <i>Computational Science, Engineering and Technology Series</i> , 1-24		21
68	Sensitivity analysis and optimal design of thin laminated composite structures. <i>Computers and Structures</i> , 1991 , 41, 501-508	4.5	21
67	Multiobjective optimization of functionally graded material plates with thermo-mechanical loading. <i>Composite Structures</i> , 2019 , 207, 845-857	5.3	21
66	Buckling and nonlinear response of functionally graded plates under thermo-mechanical loading. <i>Composite Structures</i> , 2018 , 202, 719-730	5.3	20
65	Damping optimisation of hybrid active-passive sandwich composite structures. <i>Advances in Engineering Software</i> , 2012 , 46, 69-74	3.6	20
64	Buckling sensitivity analysis and optimal design of thin laminated structures. <i>Computers and Structures</i> , 1997 , 64, 461-472	4.5	20
63	Multiobjective optimization of constrained layer damping treatments in composite plate structures. <i>Mechanics of Advanced Materials and Structures</i> , 2017 , 24, 427-436	1.8	19
62	Optimization of magneto-electro-elastic composite structures using differential evolution. <i>Composite Structures</i> , 2014 , 107, 276-287	5.3	19
61	A study on the modeling of sandwich functionally graded particulate composites. <i>Composite Structures</i> , 2012 , 94, 2209-2217	5.3	19
60	Mixed least-squares finite element models for static and free vibration analysis of laminated composite plates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009 , 198, 1848-1856	5.7	19
59	Development of semianalytical axisymmetric shell models with embedded sensors and actuators. <i>Composite Structures</i> , 1999 , 47, 531-541	5.3	19
58	Deformations and stresses of multilayered plates with embedded functionally graded material layers using a layerwise mixed model. <i>Composites Part B: Engineering</i> , 2019 , 156, 274-291	10	19
57	Analysis of sandwich beam structures using kriging based higher order models. <i>Composite Structures</i> , 2015 , 119, 99-106	5.3	18

56	Buckling and geometrically nonlinear analysis of sandwich structures. <i>International Journal of Mechanical Sciences</i> , 2015 , 92, 154-161	5-5	18
55	Modelling and design of adaptive structures using B-spline strip models. <i>Composite Structures</i> , 2002 , 57, 245-251	5-3	18
54	Higher-order B-spline strip models for laminated composite structures with integrated sensors and actuators. <i>Composite Structures</i> , 2001 , 54, 267-274	5-3	18
53	Higher-order B-spline finite strip model for laminated adaptive structures. <i>Composite Structures</i> , 2001 , 52, 419-427	5-3	17
52	Multiobjective optimization for vibration reduction in composite plate structures using constrained layer damping. <i>Computers and Structures</i> , 2020 , 232, 105810	4-5	17
51	Active-passive damping in functionally graded sandwich plate/shell structures. <i>Composite Structures</i> , 2018 , 202, 324-332	5-3	16
50	Buckling behaviour of laminated beam structures using a higher-order discrete model. <i>Composite Structures</i> , 1997 , 38, 119-131	5-3	16
49	Optimal dynamic control of laminated adaptive structures using a higher order model and a genetic algorithm. <i>Computers and Structures</i> , 2008 , 86, 198-206	4-5	15
48	Parameter estimation in active plate structures using gradient optimisation and neural networks. <i>Inverse Problems in Science and Engineering</i> , 2006 , 14, 483-493	1-3	15
47	Analysis of adaptive shell structures using a refined laminated model. <i>Composite Structures</i> , 2004 , 66, 261-268	5-3	14
46	Structural damage identification: influence of model incompleteness and errors. <i>Composite Structures</i> , 2003 , 62, 303-313	5-3	14
45	Buckling behavior of composite and functionally graded material plates. <i>European Journal of Mechanics, A/Solids</i> , 2020 , 80, 103921	3-7	14
44	Multiobjective design optimization of laminated composite plates with piezoelectric layers. <i>Composite Structures</i> , 2017 , 169, 10-20	5-3	13
43	Shape structural optimization with an interior point nonlinear programming algorithm. <i>Structural and Multidisciplinary Optimization</i> , 2000 , 20, 107-115	3-6	13
42	Mixed least-squares finite element model for the static analysis of laminated composite plates. <i>Computers and Structures</i> , 2008 , 86, 826-838	4-5	12
41	Elastoplastic and nonlinear analysis of functionally graded axisymmetric shell structures under thermal environment, using a conical frustum finite element model. <i>Composite Structures</i> , 2019 , 226, 111186	5-3	11
40	Transient analysis of composite and sandwich plates by radial basis functions. <i>Journal of Sandwich Structures and Materials</i> , 2011 , 13, 681-704	2-1	11
39	Characterisation by Inverse Techniques of Elastic, Viscoelastic and Piezoelectric Properties of Anisotropic Sandwich Adaptive Structures. <i>Applied Composite Materials</i> , 2010 , 17, 543-556	2	10

38	Modelling and optimization of laminated adaptive shells of revolution. <i>Composite Structures</i> , 2006 , 75, 49-59	5.3	10
37	Interior point algorithms for nonlinear constrained least squares problems. <i>Inverse Problems in Science and Engineering</i> , 2004 , 12, 211-223	1.3	10
36	A discrete model for the design sensitivity analysis of multi-layered composite shells of revolution. <i>Composites Part B: Engineering</i> , 1995 , 5, 533-550		10
35	Higher-order finite element models for the static linear and nonlinear behaviour of functionally graded material plate-shell structures. <i>Composite Structures</i> , 2019 , 212, 465-475	5.3	10
34	Material and Geometric Nonlinear Analysis of Functionally Graded Plate-Shell Type Structures. <i>Applied Composite Materials</i> , 2016 , 23, 537-554	2	8
33	Visco-piezo-elastic parameter estimation in laminated plate structures. <i>Inverse Problems in Science and Engineering</i> , 2009 , 17, 145-157	1.3	7
32	Nonlocal material properties of single-walled carbon nanotubes. <i>International Journal of Smart and Nano Materials</i> , 2012 , 3, 141-151	3.6	7
31	A model for the optimum design of thin laminated plate-shell structures for static, dynamic and buckling behaviour. <i>Composite Structures</i> , 1995 , 32, 69-79	5.3	7
30	Geometrically nonlinear analysis of sandwich structures. <i>Composite Structures</i> , 2016 , 156, 135-144	5.3	6
29	Buckling behaviour of cross-ply laminated plates by a higher-order shear deformation theory. <i>Science and Engineering of Composite Materials</i> , 2012 , 19, 119-125	1.5	6
28	Shape optimization of axisymmetric shells using a higher-order shear deformation theory. <i>Structural Optimization</i> , 1995 , 9, 117-127		6
27	Modelling of Laminated Shells with Integrated Sensors and Actuators. <i>Computational Science, Engineering and Technology Series</i> , 281-309		6
26	Optimal Design of Piezolaminated Structures Using B-Spline Finite Strip Models and Genetic Algorithms. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2010 , 11, 185-195	0.7	5
25	Identification of Damage in Composite Structures: A Numerical Model. <i>Mechanics of Advanced Materials and Structures</i> , 1999 , 6, 363-376	1.8	4
24	Optimal truss design including plastic collapse constraints. <i>Structural and Multidisciplinary Optimization</i> , 2004 , 27, 20-26	3.6	3
23	Modeling of layerwise piezolaminated structures 2002 , 4701, 293		3
22	Mechanical bending behaviour of composite T-beams. <i>Composite Structures</i> , 1993 , 25, 579-586	5.3	3
21	Modelling and Design of Laminated Composite Structures with Integrated Sensors and Actuators. <i>Computational Science, Engineering and Technology Series</i> , 165-185		3

20	Optimal Design of Composite Structures with Integrated Piezoelectric Laminae 1999 , 389-408		3
19	Mechanical and thermal buckling of functionally graded axisymmetric shells. <i>Composite Structures</i> , 2021 , 261, 113318	5.3	3
18	Optimization of Metal/Ceramic Functionally Graded Plates Using the Simulated Annealing Algorithm. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 729	2.6	3
17	Optimal design of piezolaminated structures using B-spline strip finite element models. <i>Inverse Problems in Science and Engineering</i> , 2010 , 18, 481-497	1.3	2
16	Transient analysis of composite plates by radial basis functions in a pseudospectral framework. <i>Computers and Structures</i> , 2011 , 89, 161-169	4.5	2
15	Optimal design of active, passive, and hybrid sandwich structures 2008 ,		2
14	Vibrations of functionally graded material axisymmetric shells. <i>Composite Structures</i> , 2020 , 248, 112489	5.3	2
13	Evaluation of exact electro-elastic static and free vibration solutions of multilayered plates for benchmarking: Piezoelectric composite laminates and soft core sandwich plates. <i>Composites Part C: Open Access</i> , 2020 , 2, 100038	1.6	2
12	Solving time-dependent problems by an RBF-PS method with an optimal shape parameter. <i>Journal of Physics: Conference Series</i> , 2009 , 181, 012053	0.3	1
11	Adaptive Methods for Analysis of Composite Plates with Radial Basis Functions. <i>Mechanics of Advanced Materials and Structures</i> , 2011 , 18, 420-430	1.8	1
10	A semi-analytical finite element model for the analysis of piezolaminated cylindrical shells 2006 ,		1
9	Tenth International Conference on Composite Structures and Technology (ICCST/10): In honor of the 70th anniversary of Professor Carlos Alberto Mota Soares. <i>Mechanics of Advanced Materials and Structures</i> , 2017 , 24, 359-359	1.8	
8	Modeling, Simulation and Testing of Composite and Adaptive Structures. <i>Mechanics of Advanced Materials and Structures</i> , 2011 , 18, 95-95	1.8	
7	Numerical simulation of the forest impact on aquifers. <i>Communications in Numerical Methods in Engineering</i> , 2004 , 20, 585-594		
6	Layerwise partial mixed finite element analysis of magneto-electro-elastic plates. <i>Computers and Structures</i> , 2004 , 82, 1293-1293	4.5	
5	Development of a Single-Layer Laminated Plate Finite-Element Model Based on Walsh Series. <i>Mechanics of Advanced Materials and Structures</i> , 2002 , 9, 241-255	1.8	
4	Failure prediction of composite T-beams subjected to lateral load on the web. <i>Composite Structures</i> , 1995 , 32, 601-607	5.3	
3	Free vibrations analysis of composite and hybrid axisymmetric shells. <i>Composite Structures</i> , 2022 , 286, 115267	5.3	

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- 1 Multiobjective optimization for vibration reduction in composite plate structures using constrained layer damping **2016**, 878-882