

Luiz Fernando Martha

List of Publications by Year in descending order

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33
papers

547
citations

933447

10
h-index

642732

23
g-index

33
all docs

33
docs citations

33
times ranked

360
citing authors

#	ARTICLE	IF	CITATIONS
1	An interactive user interface for a structural analysis software using computer graphics techniques in MATLAB. Computer Applications in Engineering Education, 2021, 29, 1505-1525.	3.4	8
2	A unified approach to the Timoshenko 3D beam-column element tangent stiffness matrix considering higher-order terms in the strain tensor and large rotations. International Journal of Solids and Structures, 2021, 222-223, 111003.	2.7	6
3	Complete tangent stiffness matrix considering higher-order terms in the strain tensor and large rotations for a Euler Bernoulli - Timoshenko space beam-column element. MethodsX, 2021, 8, 101591.	1.6	1
4	Return-mapping algorithms for associative isotropic hardening plasticity using conic optimization. Applied Mathematical Modelling, 2020, 78, 724-748.	4.2	10
5	Elastoplastic 3D analyses of plastic zone size dependencies on load-to-yield strength and on crack size-to-width ratios under mixed mode I/II. Theoretical and Applied Fracture Mechanics, 2020, 107, 102490.	4.7	2
6	Evaluation of concrete resistances: an alternative to the criteria of Brazilian standard NBR 12655 based on a Bayesian approach. Revista IBRACON De Estruturas E Materiais, 2020, 13, .	0.6	0
7	A Unified Approach to the Timoshenko Geometric Stiffness Matrix Considering Higher-Order Terms in the Strain Tensor. Latin American Journal of Solids and Structures, 2019, 16, .	1.0	9
8	LESM – An object-oriented MATLAB program for structural analysis of linear element models. Computer Applications in Engineering Education, 2019, 27, 553-571.	3.4	7
9	On the estimation of the elastoplastic work needed to initiate crack tearing. Theoretical and Applied Fracture Mechanics, 2019, 101, 80-91.	4.7	3
10	A three-dimensional elastoplastic analysis of mixed-mode KI/KII around the crack front. MATEC Web of Conferences, 2019, 300, 11002.	0.2	0
11	Fatigue Life Predictions for L-Shaped Cracks. Lecture Notes in Mechanical Engineering, 2019, , 480-490.	0.4	0
12	Hierarchical template-based hexahedral mesh generation. Engineering With Computers, 2018, 34, 465-474.	6.1	2
13	IBHM: index-based data structures for 2D and 3D hybrid meshes. Engineering With Computers, 2017, 33, 727-744.	6.1	6
14	Hierarchical template-based quadrilateral mesh generation. Engineering With Computers, 2017, 33, 701-715.	6.1	4
15	On the estimation of multiaxial elastoplastic notch stresses and strains under in-phase proportional loadings. International Journal of Fatigue, 2017, 100, 549-562.	5.7	11
16	Avaliação da integração entre uma plataforma BIM e uma ferramenta de análise estrutural. Sistemas & Gestão, 2017, 12, 108-16.	0.1	7
17	A note on notch shape optimization to minimize stress concentration effects. Theoretical and Applied Fracture Mechanics, 2016, 84, 72-85.	4.7	12
18	Parallel generation of meshes with cracks using binary spatial decomposition. Engineering With Computers, 2016, 32, 655-674.	6.1	5

#	ARTICLE	IF	CITATIONS
19	Finite element mesh generation for subsurface simulation models. <i>Engineering With Computers</i> , 2015, 31, 305-324.	6.1	6
20	3D effects around notch and crack tips. <i>International Journal of Fatigue</i> , 2014, 62, 159-170.	5.7	24
21	Crack Front Shapes and Stress Intensity Factors in Plates under a Pure Bending Loading that Induces Partial Closure of the Crack Faces. , 2014, 3, 1279-1284.		6
22	A distributed-memory parallel technique for two-dimensional mesh generation for arbitrary domains. <i>Advances in Engineering Software</i> , 2013, 59, 38-52.	3.8	15
23	Quadrilateral Mesh Generation Using Hierarchical Templates. , 2013, , 279-296.		3
24	A Three-Dimensional Adaptive Mesh Generation Approach Using Geometric Modeling With Multi-Regions and Parametric Surfaces. <i>Journal of Computing and Information Science in Engineering</i> , 2013, 13, .	2.7	6
25	Stress intensity factor predictions: Comparison and round-off error. <i>Computational Materials Science</i> , 2012, 53, 354-358.	3.0	11
26	Boolean operations on multi-region solids for mesh generation. <i>Engineering With Computers</i> , 2012, 28, 225-239.	6.1	10
27	A back-tracking procedure for optimization of simplex meshes. <i>Communications in Numerical Methods in Engineering</i> , 2005, 21, 711-722.	1.3	8
28	A modeling methodology for finite element mesh generation of multi-region models with parametric surfaces. <i>Computers and Graphics</i> , 2002, 26, 907-918.	2.5	2
29	Non-manifold modelling: an approach based on spatial subdivision. <i>CAD Computer Aided Design</i> , 1997, 29, 209-220.	2.7	47
30	Arbitrary crack representation using solid modeling. <i>Engineering With Computers</i> , 1993, 9, 63-82.	6.1	67
31	Three-dimensional fracture simulation with a single-domain, direct boundary element formulation. <i>International Journal for Numerical Methods in Engineering</i> , 1992, 35, 1907-1921.	2.8	27
32	Hypersingular integrals in boundary element fracture analysis. <i>International Journal for Numerical Methods in Engineering</i> , 1990, 29, 1135-1158.	2.8	197
33	Finite and boundary element modeling of crack propagation in two and three dimensions. <i>Engineering With Computers</i> , 1987, 2, 167-183.	6.1	25