

Dinar Camotim

List of Publications by Year in descending order

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269
papers

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citations

57631

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63
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283
docs citations

283
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	First-order generalised beam theory for arbitrary orthotropic materials. Thin-Walled Structures, 2002, 40, 755-789.	2.7	184
2	Second-order generalised beam theory for arbitrary orthotropic materials. Thin-Walled Structures, 2002, 40, 791-820.	2.7	155
3	A new approach to the calculation of cross-section deformation modes in the framework of generalized beam theory. Computational Mechanics, 2010, 46, 759-781.	2.2	137
4	GBTul 2.0 – A second-generation code for the GBT-based buckling and vibration analysis of thin-walled members. Thin-Walled Structures, 2018, 124, 235-257.	2.7	133
5	GBT formulation to analyse the buckling behaviour of thin-walled members with arbitrarily –branched–™ open cross-sections. Thin-Walled Structures, 2006, 44, 20-38.	2.7	104
6	A cross-section analysis procedure to rationalise and automate the performance of GBT-based structural analyses. Thin-Walled Structures, 2015, 92, 29-47.	2.7	96
7	GBT buckling analysis of thin-walled steel frames: A state-of-the-art report. Thin-Walled Structures, 2010, 48, 726-743.	2.7	95
8	NONLINEAR GENERALIZED BEAM THEORY FOR COLD-FORMED STEEL MEMBERS. International Journal of Structural Stability and Dynamics, 2003, 03, 461-490.	1.5	94
9	FEM-based analysis of the local-plate/distortional mode interaction in cold-formed steel lipped channel columns. Computers and Structures, 2007, 85, 1461-1474.	2.4	94
10	Non-linear behaviour and load-carrying capacity of CFRP-strengthened lipped channel steel columns. Engineering Structures, 2008, 30, 2613-2630.	2.6	88
11	First-order, buckling and post-buckling behaviour of GFRP pultruded beams. Part 1: Experimental study. Computers and Structures, 2011, 89, 2052-2064.	2.4	84
12	Lateral-torsional buckling of singly symmetric web-tapered thin-walled I-beams: 1D model vs. shell FEA. Computers and Structures, 2007, 85, 1343-1359.	2.4	81
13	GBT formulation to analyse the first-order and buckling behaviour of thin-walled members with arbitrary cross-sections. Thin-Walled Structures, 2009, 47, 583-600.	2.7	81
14	Geometrically non-linear generalised beam theory for elastoplastic thin-walled metal members. Thin-Walled Structures, 2012, 51, 121-129.	2.7	78
15	Web crippling failure using quasi-static FE models. Thin-Walled Structures, 2014, 84, 34-49.	2.7	76
16	Experimental investigation on cold-formed steel stiffened lipped channel columns undergoing local-distortional interaction. Thin-Walled Structures, 2020, 150, 106682.	2.7	76
17	On the arc-length and other quadratic control methods: Established, less known and new implementation procedures. Computers and Structures, 2008, 86, 1353-1368.	2.4	75
18	Post-buckling behaviour and direct strength design of lipped channel columns experiencing local/distortional interaction. Journal of Constructional Steel Research, 2012, 73, 12-30.	1.7	72

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19	On the differentiation of the Rodrigues formula and its significance for the vector-like parameterization of Reissner-Simo beam theory. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 55, 1005-1032.	1.5	71
20	Global buckling analysis of plane and space thin-walled frames in the context of GBT. <i>Thin-Walled Structures</i> , 2008, 46, 79-101.	2.7	68
21	Lateral-Torsional Buckling of Singly Symmetric Tapered Beams: Theory and Applications. <i>Journal of Engineering Mechanics - ASCE</i> , 2005, 131, 586-597.	1.6	67
22	On the shear deformation modes in the framework of Generalized Beam Theory. <i>Thin-Walled Structures</i> , 2014, 84, 325-334.	2.7	64
23	A large displacement and finite rotation thin-walled beam formulation including cross-section deformation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 1627-1643.	3.4	63
24	Experimental investigation on cold-formed steel lipped channel beams affected by local-distortional interaction under non-uniform bending. <i>Thin-Walled Structures</i> , 2021, 161, 107494.	2.7	63
25	On the local and global buckling behaviour of angle, T-section and cruciform thin-walled members. <i>Thin-Walled Structures</i> , 2010, 48, 786-797.	2.7	62
26	GENERALIZED BEAM THEORY REVISITED: FROM THE KINEMATICAL ASSUMPTIONS TO THE DEFORMATION MODE DETERMINATION. <i>International Journal of Structural Stability and Dynamics</i> , 2011, 11, 969-997.	1.5	62
27	GBT buckling analysis of pultruded FRP lipped channel members. <i>Computers and Structures</i> , 2003, 81, 1889-1904.	2.4	61
28	Post-buckling behaviour and strength of cold-formed steel lipped channel columns experiencing distortional/global interaction. <i>Computers and Structures</i> , 2011, 89, 422-434.	2.4	59
29	Cold-Formed Steel Lipped Channel Columns Influenced by Local-Distortional Interaction: Strength and DSM Design. <i>Journal of Structural Engineering</i> , 2013, 139, 1059-1074.	1.7	59
30	Local/distortional mode interaction in cold-formed steel lipped channel beams. <i>Thin-Walled Structures</i> , 2010, 48, 771-785.	2.7	58
31	A novel DSM-based approach for the rational design of fixed-ended and pin-ended short-to-intermediate thin-walled angle columns. <i>Thin-Walled Structures</i> , 2015, 87, 158-182.	2.7	58
32	Generalised beam theory-based finite elements for elastoplastic thin-walled metal members. <i>Thin-Walled Structures</i> , 2011, 49, 1237-1245.	2.7	54
33	Distortional buckling formulae for cold-formed steel C and Z-section members. <i>Thin-Walled Structures</i> , 2004, 42, 1567-1597.	2.7	53
34	GBT-based buckling analysis of thin-walled members with non-standard support conditions. <i>Thin-Walled Structures</i> , 2008, 46, 800-815.	2.7	53
35	Local-Plate and Distortional Postbuckling Behavior of Cold-Formed Steel Lipped Channel Columns with Intermediate Stiffeners. <i>Journal of Structural Engineering</i> , 2006, 132, 529-540.	1.7	52
36	Experimental investigation concerning lipped channel columns undergoing local-distortional-global buckling mode interaction. <i>Thin-Walled Structures</i> , 2012, 54, 19-34.	2.7	52

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37	Local and global vibration of thin-walled members subjected to compression and non-uniform bending. <i>Journal of Sound and Vibration</i> , 2008, 315, 509-535.	2.1	50
38	Direct strength prediction of web crippling failure of beams under ETF loading. <i>Thin-Walled Structures</i> , 2016, 98, 360-374.	2.7	50
39	On the mechanics of thin-walled angle column instability. <i>Thin-Walled Structures</i> , 2012, 52, 80-89.	2.7	48
40	Developments on the Design of Cold-Formed Steel Angles. <i>Journal of Structural Engineering</i> , 2013, 139, 680-694.	1.7	48
41	Short-to-intermediate slender pin-ended cold-formed steel equal-leg angle columns: Experimental investigation, numerical simulations and DSM design. <i>Engineering Structures</i> , 2017, 132, 471-493.	2.6	48
42	Local-distortional interaction in cold-formed steel rack-section columns. <i>Thin-Walled Structures</i> , 2014, 81, 185-194.	2.7	47
43	GBT local and global buckling analysis of aluminium and stainless steel columns. <i>Computers and Structures</i> , 2004, 82, 1473-1484.	2.4	46
44	GBT-based structural analysis of elastic-plastic thin-walled members. <i>Computers and Structures</i> , 2014, 136, 1-23.	2.4	45
45	Post-buckling analysis of thin-walled steel frames using generalised beam theory (GBT). <i>Thin-Walled Structures</i> , 2013, 62, 229-242.	2.7	44
46	Uniformly bent CFS lipped channel beams experiencing local-distortional interaction: Experimental investigation. <i>Journal of Constructional Steel Research</i> , 2020, 170, 106098.	1.7	44
47	Buckling analysis of thin-walled steel structures using generalized beam theory (GBT): state-of-the-art report. <i>Steel Construction</i> , 2013, 6, 117-131.	0.4	43
48	GBT FORMULATION TO ANALYZE THE BUCKLING BEHAVIOR OF THIN-WALLED MEMBERS SUBJECTED TO NON-UNIFORM BENDING. <i>International Journal of Structural Stability and Dynamics</i> , 2007, 07, 23-54.	1.5	41
49	On the evaluation of elastic critical moments in doubly and singly symmetric I-section cantilevers. <i>Journal of Constructional Steel Research</i> , 2007, 63, 894-908.	1.7	41
50	Deformation modes of thin-walled members: A comparison between the method of Generalized Eigenvectors and Generalized Beam Theory. <i>Thin-Walled Structures</i> , 2016, 100, 192-212.	2.7	41
51	Distortional failure of cold-formed steel beams under uniform bending: Behaviour, strength and DSM design. <i>Thin-Walled Structures</i> , 2017, 118, 196-213.	2.7	41
52	Local-distortional-global interaction in lipped channel columns: Experimental results, numerical simulations and design considerations. <i>Thin-Walled Structures</i> , 2012, 61, 2-13.	2.7	40
53	Computational modelling of flange crushing in cold-formed steel sections. <i>Thin-Walled Structures</i> , 2014, 84, 393-405.	2.7	40
54	On the relevance of local-distortional interaction effects in the behaviour and design of cold-formed steel columns. <i>Computers and Structures</i> , 2015, 160, 57-89.	2.4	40

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55	Distortional buckling formulae for cold-formed steel C- and Z-section members. <i>Thin-Walled Structures</i> , 2004, 42, 1599-1629.	2.7	39
56	Shear Deformable Generalized Beam Theory for the Analysis of Thin-Walled Composite Members. <i>Journal of Engineering Mechanics - ASCE</i> , 2013, 139, 1010-1024.	1.6	39
57	Elastic buckling of uniformly compressed thin-walled regular polygonal tubes. <i>Thin-Walled Structures</i> , 2013, 71, 35-45.	2.7	38
58	GBT formulation to analyse the buckling behaviour of FRP composite open-section thin-walled columns. <i>Composite Structures</i> , 2010, 93, 79-92.	3.1	37
59	Coupled instabilities with distortional buckling in cold-formed steel lipped channel columns. <i>Thin-Walled Structures</i> , 2011, 49, 562-575.	2.7	36
60	Torsion warping transmission at thin-walled frame joints: Kinematics, modelling and structural response. <i>Journal of Constructional Steel Research</i> , 2012, 69, 39-53.	1.7	35
61	Cold-formed steel columns undergoing local-distortional coupling: Behaviour and direct strength prediction against interactive failure. <i>Computers and Structures</i> , 2015, 147, 181-208.	2.4	35
62	Web crippling of beams under ITF loading: A novel DSM-based design approach. <i>Journal of Constructional Steel Research</i> , 2017, 128, 812-824.	1.7	35
63	GBT buckling analysis of generally loaded thin-walled members with arbitrary flat-walled cross-sections. <i>Thin-Walled Structures</i> , 2018, 123, 11-24.	2.7	35
64	First-order, buckling and post-buckling behaviour of GFRP pultruded beams. Part 2: Numerical simulation. <i>Computers and Structures</i> , 2011, 89, 2065-2078.	2.4	34
65	On the direct strength design of cold-formed steel columns failing in local-distortional interactive modes. <i>Thin-Walled Structures</i> , 2017, 120, 432-445.	2.7	34
66	Review: Interactive behaviour, failure and DSM design of cold-formed steel members prone to distortional buckling. <i>Thin-Walled Structures</i> , 2018, 128, 12-42.	2.7	34
67	Physically non-linear GBT analysis of thin-walled members. <i>Computers and Structures</i> , 2013, 129, 148-165.	2.4	33
68	Mode interaction in thin-walled equal-leg angle columns. <i>Thin-Walled Structures</i> , 2014, 81, 138-149.	2.7	33
69	GBT-based local, distortional and global buckling analysis of thin-walled steel frames. <i>Thin-Walled Structures</i> , 2009, 47, 1246-1264.	2.7	32
70	Localized web buckling analysis of beams subjected to concentrated loads using GBT. <i>Thin-Walled Structures</i> , 2012, 61, 27-41.	2.7	32
71	On the Direct Strength Method (DSM) design of cold-formed steel columns against distortional failure. <i>Thin-Walled Structures</i> , 2013, 67, 168-187.	2.7	32
72	Local-distortional interaction in cold-formed steel beams: Behaviour, strength and DSM design. <i>Thin-Walled Structures</i> , 2017, 119, 879-901.	2.7	32

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73	Dynamic analysis of thin-walled members using Generalised Beam Theory (GBT). Thin-Walled Structures, 2013, 72, 188-205.	2.7	31
74	Numerical investigation and direct strength design of cold-formed steel lipped channel columns experiencing local-distortional-global interaction. Thin-Walled Structures, 2016, 105, 231-247.	2.7	31
75	On the influence of local-distortional interaction in the behaviour and design of cold-formed steel web-stiffened lipped channel columns. Thin-Walled Structures, 2016, 101, 181-204.	2.7	30
76	Steel-concrete composite bridge analysis using generalised beam theory. Steel and Composite Structures, 2010, 10, 223-243.	1.3	30
77	On the mechanics of distortion in thin-walled open sections. Thin-Walled Structures, 2010, 48, 469-481.	2.7	29
78	Non-linear GBT formulation for open-section thin-walled members with arbitrary support conditions. Computers and Structures, 2011, 89, 1906-1919.	2.4	29
79	Distortional failure and DSM design of cold-formed steel lipped channel beams under elevated temperatures. Thin-Walled Structures, 2016, 98, 75-93.	2.7	29
80	GBT-based finite element to assess the buckling behaviour of steel-concrete composite beams. Thin-Walled Structures, 2016, 107, 207-220.	2.7	28
81	Thin-walled member plastic bifurcation analysis using generalised beam theory. Advances in Engineering Software, 2007, 38, 637-646.	1.8	27
82	Glass Fibre Reinforced Polymer Pultruded Flexural Members: Assessment of Existing Design Methods. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2010, 20, 362-369.	0.5	27
83	GBT-based assessment of the buckling behaviour of cold-formed steel purlins restrained by sheeting. Thin-Walled Structures, 2013, 72, 217-229.	2.7	27
84	On the strength and DSM design of cold-formed steel web/flange-stiffened lipped channel columns buckling and failing in distortional modes. Thin-Walled Structures, 2016, 105, 248-265.	2.7	26
85	Enhanced Geometrically Nonlinear Generalized Beam Theory Formulation: Derivation, Numerical Implementation, and Illustration. Journal of Engineering Mechanics - ASCE, 2018, 144, .	1.6	26
86	Numerical Analysis of Thin-Walled Structures using Generalised Beam Theory: Recent and Future Developments. Computational Technology Reviews, 2010, 1, 315-354.	0.6	26
87	Asymptotic-Numerical Method to Analyze the Postbuckling Behavior, Imperfection-Sensitivity, and Mode Interaction in Frames. Journal of Engineering Mechanics - ASCE, 2005, 131, 617-632.	1.6	25
88	Behaviour and DSM design of stiffened lipped channel columns undergoing local-distortional interaction. Journal of Constructional Steel Research, 2017, 128, 99-118.	1.7	25
89	On the distortional-global interaction in cold-formed steel columns: Relevance, post-buckling behaviour, strength and DSM design. Journal of Constructional Steel Research, 2018, 145, 449-470.	1.7	25
90	CFS lipped channel columns affected by L-D-G interaction. Part I: Experimental investigation. Computers and Structures, 2018, 207, 219-232.	2.4	25

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91	AN ANALYTICAL STUDY ON THE LATERAL-TORSIONAL BUCKLING OF LINEARLY TAPERED CANTILEVER STRIP BEAMS. <i>International Journal of Structural Stability and Dynamics</i> , 2007, 07, 441-456.	1.5	24
92	LOCAL/DISTORTIONAL/GLOBAL MODE INTERACTION IN SIMPLY SUPPORTED COLD-FORMED STEEL LIPPED CHANNEL COLUMNS. <i>International Journal of Structural Stability and Dynamics</i> , 2011, 11, 877-902.	1.5	24
93	A physically non-linear GBT-based finite element for steel and steel-concrete beams including shear lag effects. <i>Thin-Walled Structures</i> , 2015, 90, 202-215.	2.7	24
94	Improving the efficiency of GBT displacement-based finite elements. <i>Thin-Walled Structures</i> , 2017, 111, 165-175.	2.7	24
95	On the application of beam-column interaction formulae to steel members with arbitrary loading and support conditions. <i>Journal of Constructional Steel Research</i> , 2004, 60, 433-450.	1.7	23
96	Buckling behaviour of thin-walled regular polygonal tubes subjected to bending or torsion. <i>Thin-Walled Structures</i> , 2013, 73, 185-197.	2.7	23
97	First-order generalised beam theory for curved thin-walled members with circular axis. <i>Thin-Walled Structures</i> , 2016, 107, 345-361.	2.7	23
98	On the mechanics of local-distortional interaction in thin-walled lipped channel columns. <i>Thin-Walled Structures</i> , 2018, 125, 187-202.	2.7	23
99	On the mechanics of local-distortional interaction in thin-walled lipped channel beams. <i>Thin-Walled Structures</i> , 2018, 128, 108-125.	2.7	23
100	Work-conjugacy between rotation-dependent moments and finite rotations. <i>International Journal of Solids and Structures</i> , 2003, 40, 2851-2873.	1.3	22
101	On the incorporation of equivalent member imperfections in the in-plane design of steel frames. <i>Journal of Constructional Steel Research</i> , 2005, 61, 1226-1240.	1.7	22
102	GBT-BASED LOCAL AND GLOBAL VIBRATION ANALYSIS OF LOADED COMPOSITE OPEN-SECTION THIN-WALLED MEMBERS. <i>International Journal of Structural Stability and Dynamics</i> , 2006, 06, 1-29.	1.5	22
103	Incorporation of wall finite relative rotations in a geometrically exact thin-walled beam element. <i>Computational Mechanics</i> , 2011, 48, 229-244.	2.2	22
104	On the behaviour of thin-walled steel regular polygonal tubular members. <i>Thin-Walled Structures</i> , 2013, 62, 191-205.	2.7	22
105	Strength, interactive failure and design of web-stiffened lipped channel columns exhibiting distortional buckling. <i>Thin-Walled Structures</i> , 2014, 81, 195-209.	2.7	22
106	GBT deformation modes for curved thin-walled cross-sections based on a mid-line polygonal approximation. <i>Thin-Walled Structures</i> , 2016, 103, 231-243.	2.7	22
107	Proposal to Improve the DSM Design of Cold-Formed Steel Angle Columns: Need, Background, Quality Assessment, and Illustration. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	22
108	On the direct strength method design of columns against global failures. <i>Thin-Walled Structures</i> , 2019, 139, 242-270.	2.7	22

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109	Behaviour and design of fixed-ended steel equal-leg angle section columns. Journal of Constructional Steel Research, 2021, 182, 106649.	1.7	22
110	GBT-based semi-analytical solutions for the plastic bifurcation of thin-walled members. International Journal of Solids and Structures, 2010, 47, 34-50.	1.3	21
111	GBT-BASED BUCKLING ANALYSIS OF THIN- WALLED STEEL FRAMES WITH ARBITRARY LOADING AND SUPPORT CONDITIONS. International Journal of Structural Stability and Dynamics, 2010, 10, 363-385.	1.5	21
112	Distortional-global interaction in lipped channel and zed-section beams: Strength, relevance and DSM design. Thin-Walled Structures, 2018, 129, 289-308.	2.7	21
113	Combining shell and GBT-based finite elements: Linear and bifurcation analysis. Thin-Walled Structures, 2020, 152, 106665.	2.7	21
114	Buckling, Postbuckling, Strength, and DSM Design of Cold-Formed Steel Continuous Lipped Channel Beams. Journal of Structural Engineering, 2013, 139, 657-668.	1.7	20
115	The vibration behaviour of thin-walled regular polygonal tubes. Thin-Walled Structures, 2014, 84, 177-188.	2.7	20
116	Deformation modes for the post-critical analysis of thin-walled compressed members by a Koiter semi-analytic approach. International Journal of Solids and Structures, 2017, 110-111, 367-384.	1.3	20
117	On the mechanics of distortional-global interaction in fixed-ended columns. Thin-Walled Structures, 2018, 123, 162-184.	2.7	20
118	GBT-based elastic-plastic post-buckling analysis of stainless steel thin-walled members. Thin-Walled Structures, 2014, 83, 85-102.	2.7	19
119	CFS lipped channel columns affected by L-D-G interaction. Part II: Numerical simulations and design considerations. Computers and Structures, 2018, 207, 200-218.	2.4	19
120	Lateral-torsional buckling of prismatic and tapered thin-walled open beams: assessing the influence of pre-buckling deflections. Steel and Composite Structures, 2004, 4, 281-301.	1.3	19
121	Vibration behaviour of axially compressed cold-formed steel members. Steel and Composite Structures, 2006, 6, 221-236.	1.3	19
122	Elastic lateral-torsional buckling of restrained web-tapered I-beams. Computers and Structures, 2010, 88, 1179-1196.	2.4	18
123	Numerical simulation and design of stainless steel columns under fire conditions. Engineering Structures, 2021, 229, 111628.	2.6	18
124	On the use of the EC3 and AISI specifications to estimate the ultimate load of CFRP-strengthened cold-formed steel lipped channel columns. Thin-Walled Structures, 2009, 47, 1102-1111.	2.7	17
125	Direct strength method—a general approach for the design of cold-formed steel structures. , 2016, , 69-105.		17
126	A geometrically exact beam finite element for curved thin-walled bars with deformable cross-section. Computer Methods in Applied Mechanics and Engineering, 2021, 381, 113804.	3.4	17

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127	Distortional-global interaction in lipped channel columns. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2013, 166, 381-391.	0.4	16
128	Buckling Analysis of Thin-Walled Steel Structural Systems Using Generalized Beam Theory (GBT). International Journal of Structural Stability and Dynamics, 2015, 15, 1540004.	1.5	16
129	Dynamic analysis of high-speed railway bridge decks using generalised beam theory. Thin-Walled Structures, 2017, 114, 22-31.	2.7	16
130	Generalised beam theory (GBT) formulation to analyse the vibration behaviour of thin-walled steel frames. Thin-Walled Structures, 2018, 127, 259-274.	2.7	16
131	GBT-based Structural Analysis of Thin-walled members: Overview, Recent Progress and Future Developments. , 2006, , 187-204.		16
132	Modal decomposition of thin-walled member collapse mechanisms. Thin-Walled Structures, 2014, 74, 269-291.	2.7	15
133	Buckling and Vibration Analysis of Cold-Formed Steel CHS Members and Frames Using Generalized Beam Theory. International Journal of Structural Stability and Dynamics, 2015, 15, 1540021.	1.5	15
134	GBT-based assessment of the mechanics of distortional-global interaction in thin-walled lipped channel beams. Thin-Walled Structures, 2018, 124, 32-47.	2.7	15
135	Combining shell and GBT-based finite elements: Plastic analysis with adaptive mesh refinement. Thin-Walled Structures, 2021, 158, 107205.	2.7	15
136	On the behaviour, failure and direct strength design of thin-walled steel structural systems. Thin-Walled Structures, 2014, 81, 50-66.	2.7	14
137	DSM to predict distortional failures in cold-formed steel columns exposed to fire: Effect of the constitutive law temperature-dependence. Computers and Structures, 2015, 147, 47-67.	2.4	14
138	GBT-based cross-section deformation modes for curved thin-walled members with circular axis. Thin-Walled Structures, 2018, 127, 769-780.	2.7	14
139	DSM Design of Cold-Formed Steel Columns Failing in Distortional Modes at Elevated Temperatures. International Journal of Steel Structures, 2019, 19, 1023-1041.	0.6	14
140	Behavior, Failure, and Direct Strength Method Design of Steel Angle Columns: Geometrical Simplicity versus Structural Complexity. Journal of Structural Engineering, 2020, 146, .	1.7	14
141	Flexural-Torsional Buckling of Cantilever Strip Beam-Columns with Linearly Varying Depth. Journal of Engineering Mechanics - ASCE, 2010, 136, 787-800.	1.6	13
142	On The Distortional Buckling, Post-Buckling And Strength of Cold-Formed Steel Lipped Channel Columns Under Fire Conditions. Journal of Structural Fire Engineering, 2011, 2, 1-19.	0.4	13
143	Enhanced generalised beam theory buckling formulation to handle transverse load application effects. International Journal of Solids and Structures, 2013, 50, 531-547.	1.3	13
144	Distortional buckling formulae for cold-formed steel rack-section members. Steel and Composite Structures, 2004, 4, 49-75.	1.3	13

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145	GBT post-buckling analysis based on the Implicit Corotational Method. International Journal of Solids and Structures, 2019, 163, 40-60.	1.3	12
146	Mode interaction in cold-formed steel members: state-of-art report. Steel Construction, 2020, 13, 186-207.	0.4	12
147	Mode interaction in cold-formed steel members: state-of-art report. Steel Construction, 2020, 13, 165-185.	0.4	12
148	Elastic buckling and second-order behaviour of pitched-roof steel frames. Journal of Constructional Steel Research, 2007, 63, 804-818.	1.7	11
149	Some thoughts on a surprising result concerning the lateral-torsional buckling of monosymmetric I-section beams. Thin-Walled Structures, 2012, 60, 216-221.	2.7	11
150	GBT-based buckling analysis of steel cylindrical shells under combinations of compression and external pressure. Thin-Walled Structures, 2019, 144, 106274.	2.7	11
151	Improving the Direct Strength Method prediction of column flexural-torsional failure loads. Thin-Walled Structures, 2020, 148, 106461.	2.7	11
152	Cold-formed steel columns under L-D interaction. Steel Construction, 2014, 7, 193-198.	0.4	10
153	On the local buckling of RHS members under axial force and biaxial bending. Thin-Walled Structures, 2018, 129, 10-19.	2.7	10
154	GBT-based time-dependent analysis of steel-concrete composite beams including shear lag and concrete cracking effects. Thin-Walled Structures, 2020, 150, 106706.	2.7	10
155	Combining shell and GBT-based finite elements: Vibration and dynamic analysis. Thin-Walled Structures, 2021, 167, 108187.	2.7	10
156	On the distortional post-buckling behaviour of cold-formed lipped channel steel beams. , 2002, , 331-339.		9
157	ON THE USE OF GENERALIZED BEAM THEORY TO ASSESS THE BUCKLING AND POSTBUCKLING BEHAVIOR OF LAMINATED CFRP CYLINDRICAL STIFFENED PANELS. International Journal of Structural Stability and Dynamics, 2010, 10, 737-760.	1.5	9
158	A visco-elastic GBT-based finite element for steel-concrete composite beams. Thin-Walled Structures, 2019, 145, 106440.	2.7	9
159	Design of simply supported hot-rolled steel short-to-intermediate angle columns. Steel Construction, 2019, 12, 278-290.	0.4	9
160	On the use of spring models to analyse the lateral-torsional buckling behaviour of cracked beams. Thin-Walled Structures, 2013, 73, 121-130.	2.7	8
161	Local "Distortional Interaction in Cold-formed Steel Columns: Mechanics, Testing, Numerical Simulation and Design. Structures, 2015, 4, 38-57.	1.7	8
162	13.11: DSM design approach for hot-rolled steel angle columns. Ce/Papers, 2017, 1, 3781-3790.	0.1	8

#	ARTICLE	IF	CITATIONS
163	On the local and distortional post-buckling behaviour of thin-walled regular polygonal tubular columns. <i>Thin-Walled Structures</i> , 2019, 138, 46-63.	2.7	8
164	Distortional strength of end-bolted CFS lipped channel columns: Experimental investigation, numerical simulations and DSM design. <i>Thin-Walled Structures</i> , 2020, 148, 106469.	2.7	8
165	Integration algorithm for 2D elastoplasticity under arbitrary mixed stress-strain control. <i>International Journal for Numerical Methods in Engineering</i> , 2001, 50, 1213-1232.	1.5	7
166	Generalized Beam Theory to Analyze the Vibration of Open-Section Thin-Walled Composite Members. <i>Journal of Engineering Mechanics - ASCE</i> , 2013, 139, 992-1009.	1.6	7
167	GBT-based first-order analysis of elastic-plastic thin-walled steel members exhibiting strain-hardening. <i>IES Journal Part A: Civil and Structural Engineering</i> , 2013, 6, 119-134.	0.4	7
168	On distortion of symmetric and periodic open-section thin-walled members. <i>Thin-Walled Structures</i> , 2015, 94, 314-324.	2.7	7
169	Global-Local-Distortional Vibration of Thin-Walled Rectangular Multi-Cell Beams. <i>International Journal of Structural Stability and Dynamics</i> , 2015, 15, 1540022.	1.5	7
170	On lateral-torsional buckling of discrete elastic systems: A nonlocal approach. <i>European Journal of Mechanics, A/Solids</i> , 2015, 49, 106-113.	2.1	7
171	Post-buckling behaviour of thin-walled regular polygonal tubular columns undergoing local-distortional interaction. <i>Thin-Walled Structures</i> , 2019, 138, 373-391.	2.7	7
172	A GBT-based mixed finite element for curved thin-walled members with circular axis. <i>Thin-Walled Structures</i> , 2020, 146, 106462.	2.7	7
173	GBT Analysis of Steel-Concrete Composite Beams: Recent Developments. <i>International Journal of Structural Stability and Dynamics</i> , 2020, 20, 2041007.	1.5	7
174	On the first-order and buckling behaviour of thin walled regular polygonal tubes. <i>Steel Construction</i> , 2016, 9, 279-290.	0.4	6
175	GBT-Based Vibration Analysis Using the Exact Element Method. <i>International Journal of Structural Stability and Dynamics</i> , 2018, 18, 1850068.	1.5	6
176	GBT AND cFSM: TWO MODAL APPROACHES TO THE BUCKLING ANALYSIS OF UNBRANCHED THIN-WALLED MEMBERS. , 2009, , 195-223.		6
177	On the Use of Shell Finite Element Analysis to Assess the Local Buckling and Post-Buckling Behaviour of Cold-Formed Steel Thin-Walled Members. , 2006, , 689-689.		5
178	Behaviour, failure and DSM design of cold-formed steel beams: Influence of the load point of application. <i>Thin-Walled Structures</i> , 2014, 81, 78-88.	2.7	5
179	On the plastic moment of I-sections subjected to moderate shear forces. <i>Thin-Walled Structures</i> , 2014, 78, 138-147.	2.7	5
180	GBT-Based Buckling Analysis Using the Exact Element Method. <i>International Journal of Structural Stability and Dynamics</i> , 2017, 17, 1750125.	1.5	5

#	ARTICLE	IF	CITATIONS
181	Influence of the deformation mode nature on the 1st order post-yielding strength of thin-walled beams. <i>Thin-Walled Structures</i> , 2018, 128, 71-79.	2.7	5
182	Retrieving GBT mode amplitudes from shell finite element and finite strip results in first-order elastoplastic, bifurcation and vibration analyses. <i>Thin-Walled Structures</i> , 2021, 166, 108078.	2.7	5
183	Generalized Beam Theory deformation modes for steel-concrete composite bridge decks including shear connection flexibility. <i>Thin-Walled Structures</i> , 2021, 169, 108408.	2.7	5
184	GBT-based dynamic analysis of thin-walled members with circular axis. <i>Thin-Walled Structures</i> , 2022, 170, 108533.	2.7	5
185	Lateral-distortional buckling of steel-concrete composite beams: Kinematics, constrained-mode GBT and analytical formulae. <i>Journal of Constructional Steel Research</i> , 2022, 192, 107210.	1.7	5
186	On the design and safety checking of unbraced pitched-roof steel frames. <i>Journal of Constructional Steel Research</i> , 1998, 46, 328-330.	1.7	4
187	On the stability and strength of steel columns affected by distortional buckling. <i>Journal of Constructional Steel Research</i> , 1998, 46, 129-131.	1.7	4
188	GBT-based local and global vibration analysis of thin-walled members. , 2007, , 36-76.		4
189	A system-based approach for the design of laterally unbraced multi-span steel columns and beams. <i>Engineering Structures</i> , 2017, 135, 10-20.	2.6	4
190	Improving the GBT-based buckling analysis of restrained cold-formed steel members by considering constrained deformation modes. <i>Thin-Walled Structures</i> , 2021, 165, 107928.	2.7	4
191	Stiffening optimisation of conventional cold-formed steel cross-sections based on a multi-objective Genetic Algorithm and using Generalised Beam Theory. <i>Thin-Walled Structures</i> , 2022, 179, 109713.	2.7	4
192	Active Vibration Control of Simple Beam. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 1983, 7, 184-189.	0.3	3
193	Plastic buckling with residual stresses ¹ . Postbifurcation behaviour. <i>Dynamical Systems</i> , 1993, 8, 219-251.	0.7	3
194	Computer-aided design of structural steel plane frames according to Eurocode 3. <i>Journal of Constructional Steel Research</i> , 1998, 46, 367-368.	1.7	3
195	On the influence of the rounded corners on the local stability of RHS members under axial force and biaxial bending. <i>Thin-Walled Structures</i> , 2019, 144, 106327.	2.7	3
196	Numerical and experimental study on CFS spherically-hinged equal-leg angle columns: stability, strength and DSM design. <i>Thin-Walled Structures</i> , 2021, 161, 106862.	2.7	3
197	Mode Interaction in Cold-Formed Steel Members: State-of-Art Report. <i>Ce/Papers</i> , 2021, 4, 34-64.	0.1	3
198	Flexural-torsional failure and DSM design of fixed-ended cold-formed steel columns at elevated temperatures. <i>Thin-Walled Structures</i> , 2021, 169, 108362.	2.7	3

#	ARTICLE	IF	CITATIONS
199	On the Use of the Buckling Length Concept in the Design or Safety Checking of Steel Plane Frames. , 1999, , 61-68.		3
200	DIRECT STRENGTH PREDICTION OF LIPPED CHANNEL COLUMNS EXPERIENCING LOCAL-PLATE/DISTORTIONAL INTERACTION. , 2009, , 49-71.		3
201	LOCAL POST-BUCKLING BEHAVIOUR OF COLD-FORMED STEEL RACK COLUMNS. , 2000, , .		3
202	Retrieving the GBT modal decomposition from large displacement shell finite element results. Thin-Walled Structures, 2022, 173, 109033.	2.7	3
203	Generalised Beam Theory formulation for the buckling analysis of thin-walled members with circular axis. Thin-Walled Structures, 2022, 176, 109322.	2.7	3
204	Distortional Failure and DSM Design of Cold-Formed Steel S-Shaped Beams Under Uniform Bending. Latin American Journal of Solids and Structures, 2017, 14, 2123-2140.	0.6	2
205	Developments on the GBT-based stability analysis of thin-walled members and structural systems. , 2022, , 133-175.		2
206	Formulation of a GBT-Based Finite Element to Analyse the Global Buckling Behaviour of Plane and Spatial Thin-Walled Frames. , 2006, , 682-682.		2
207	LOCAL / DISTORTIONAL / GLOBAL MODE COUPLING IN FIXED LIPPED CHANNEL COLUMNS: BEHAVIOUR AND STRENGTH. , 2011, , 113-130.		2
208	Quasi-Static Web Crippling Analysis of Cold-Formed Steel Beams. , 2012, , .		2
209	COUPLED GLOBAL INSTABILITIES IN PITCHED-ROOF FRAMES. , 2000, , .		2
210	Globalâ€œglobal interaction in cold-formed steel plain and lipped channel columns. Thin-Walled Structures, 2022, 172, 108872.	2.7	2
211	On the Distortional Post-Buckling Behaviour of Rack-Section Cold-Formed Steel Columns. , 0, , .		2
212	A rate-consistent and intrinsically path-dependent incremental method for plastic buckling problems. International Journal for Numerical Methods in Engineering, 2000, 47, 1909-1932.	1.5	1
213	GBT-Based distortional buckling formulae for thin-walled rack-section columns and beams. , 2002, , 341-350.		1
214	Reply to: Dr. Lip Tehâ€™s discussion on â€œWork-conjugacy between rotation-dependent moments and finite rotationsâ€™. [Vol. 40, No. 11, pp. 2851â€œ2873]. International Journal of Solids and Structures, 2003, 40, 6211-6214.	1.3	1
215	Lateral-Torsional Buckling Analysis of Web-Tapered I-Beams Using Finite Element and Spline Collocation Methods. , 2006, , 680-680.		1
216	Discussion on the paper Elastic flexuralâ€œtorsional buckling of thin-walled cantilevers by Lei Zhang and Geng Shu Tong [Thin-walled Structures, 46(1), 2008, 27â€œ37]. Thin-Walled Structures, 2010, 48, 184-186.	2.7	1

#	ARTICLE	IF	CITATIONS
217	Lateral-Torsional Stability Boundaries for Polygonally Depth-Tapered Strip Cantilevers Under Multi-Parameter Point Load Systems – An Analytical Approach. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	1.1	1
218	Special Issue on Cold-Formed Steel Structures. Journal of Structural Engineering, 2013, 139, 637-639.	1.7	1
219	07.02: Distortional-global interaction in lipped channel beams: Part I: Mechanics and elastic behaviour. Ce/Papers, 2017, 1, 1493-1502.	0.1	1
220	07.03: Distortional-global interaction in lipped channel beams: Part II: Strength, relevance and DSM design. Ce/Papers, 2017, 1, 1503-1512.	0.1	1
221	Post-buckling behaviour of thin-walled regular polygonal tubes subjected to bending. Thin-Walled Structures, 2021, 166, 108106.	2.7	1
222	GBT-Based Finite Element Formulation to Analyse the Buckling Behaviour of Thin-Walled Members Subjected to Non-Uniform Bending. , 2006, , 683-683.		1
223	Bending Instabilities of Carbon Nanotubes. , 2009, , 365-370.		1
224	Buckling analysis of cold-formed RHS frames using Generalised Beam Theory. , 2010, , 187-195.		1
225	Buckling analysis of steel trusses with thin-walled RHS members using Generalised Beam Theory (GBT). , 2012, , 655-662.		1
226	Geometrically and Physically Non-Linear GBT-Based Analysis of Thin-Walled Steel Members. , 2012, , .		1
227	L-D-G Interaction in CFS Lipped Channel Columns Part I: Experimental Investigation. , 0, , .		1
228	L-D-G Interaction in CFS Lipped Channel Columns Part II: Numerical Simulations and Design Considerations. , 0, , .		1
229	Application of Direct Strength Method Design to Distortional Buckling Resistance of Thin-Walled Steel Columns Exposed to Fire. , 0, , .		1
230	Buckling behaviour of thin-walled composite columns using generalised beam theory. , 2001, , 329-337.		1
231	Proposal to Improve the DSM Design of Cold-Formed Steel Fixed-Ended Columns Failing in Global Modes. Lecture Notes in Civil Engineering, 2021, , 1415-1426.	0.3	1
232	Local, Distortional and Global Post-Buckling Analysis of Frames using Generalised Beam Theory. , 0, , .		1
233	Transversally loaded stainless steel beams under fire: Local/global behaviour, strength and design. Journal of Constructional Steel Research, 2022, 189, 107080.	1.7	1
234	UNIFIED GBT APPROACH TO THE STABILITY AND VIBRATION ANALYSES OF THIN-WALLED STRUCTURAL MEMBERS. , 2002, , .		0

#	ARTICLE	IF	CITATIONS
235	Advances in the Stability of Frame Structures. Journal of Engineering Mechanics - ASCE, 2005, 131, 557-558.	1.6	0
236	Direct Second-Order Analysis for the Design of Steel Structures. , 2006, , 1.		0
237	Aplicação do método da resistência direta a colunas e vigas de aço enformadas a frio com seção em C afetadas por interação entre instabilidade local-de-placa e distorcional. Revista Escola De Minas, 2007, 60, 341-354.	0.1	0
238	Vibration Analysis of Composite Folded-Plate Members. International Journal of Vehicle Structures and Systems, 2009, 1, .	0.1	0
239	Vibration behavior of thin-walled steel members subjected to uniform bending. REM: International Engineering Journal, 2018, 71, 349-359.	0.2	0
240	Behaviour and design of fixed-ended steel equal-leg angle section columns. Ce/Papers, 2021, 4, 1096-1105.	0.1	0
241	Numerical Simulation and Design of Stainless Steel Columns under Elevated Temperatures. Ce/Papers, 2021, 4, 1465-1474.	0.1	0
242	DSM Design of Cold-Formed Steel Columns Failing in Flexural-Torsional Modes at Elevated Temperatures. Ce/Papers, 2021, 4, 1272-1281.	0.1	0
243	Stability of Compressed Carbon Nanotubes Using Shell Models. , 2009, , 357-363.		0
244	Buckling, Post-Buckling, Collapse and Design of Three Span Cold-Formed Steel Beams. , 2011, , .		0
245	On the Strength Prediction of Web Crippling Failure in Cold-Formed Steel Beams. , 2011, , .		0
246	First order elastoplastic GBT analysis of tubular beams. , 2012, , 705-712.		0
247	GBT buckling analysis of thin-walled steel tubular members with regular polygonal cross-sections. , 2012, , 713-719.		0
248	On the first order and buckling behaviour of thin-walled regular polygonal tubes. , 2015, , 653-660.		0
249	On the Direct Strength Method (DSM) design of cold-formed steel beams experiencing local-distortional interaction. , 2016, , 1038-1043.		0
250	GBT-based buckling analysis of circular hollow section steel members and structural systems. , 2016, , 1014-1021.		0
251	Direct strength method for web crippling design: ITF load conditions. , 2016, , 1080-1085.		0
252	On the Effect of Residual Stresses in the Plastic Buckling of Columns - A Model Study. Transactions of the Canadian Society for Mechanical Engineering, 1985, 9, 210-223.	0.3	0

#	ARTICLE	IF	CITATIONS
253	The Relevance of Local-Distortional Interaction Effects in Lipped Channel Columns. , 0, , .		0
254	Non-Linear Behaviour and Design of Centrally Loaded Thin-Walled Steel Angle Columns: State-of-the-Art Report. , 0, , .		0
255	Flange and Web-Triggered Local-Distortional Mode Interaction in Cold-Formed Steel Lipped Channel Beams: Finite Element Analysis. , 0, , .		0
256	Buckling Behaviour of FRP Thin-Walled Lipped Channel Members. , 0, , .		0
257	Generalised Beam Theory based Local and Global Dynamic Analysis of High-Speed Railway Bridge Decks. , 0, , .		0
258	Numerical Investigation of Adjustable Telescopic Steel Props. , 0, , .		0
259	On the Relevance of Local-Distortional Interaction in the Post-Buckling Behaviour and Strength of Cold-Formed Steel Lipped Channel Columns. , 0, , .		0
260	Local and Global Buckling and Post-Buckling Analysis of Thin-Walled Members using Enhanced Beam Finite Elements. , 0, , .		0
261	First-Order, Buckling and Post-Buckling Behaviour of GFRP Pultruded Beams: Part 2 Numerical Simulation. , 0, , .		0
262	Local Buckling, Post-Buckling and Mode Interaction Finite Element Analyses in Cold-Formed Steel Members. , 0, , .		0
263	LTB-UC: A Finite Element Tool for Lateral-Torsional Buckling Analysis of Tapered I-Beams. , 0, , .		0
264	Generalized Beam Theory Dynamic Analysis of a Two-Track High-Speed Railway Bridge Deck. , 0, , .		0
265	Analysis of Local-Plate/Distortional Mode Interaction in Cold-Formed Steel Lipped Channel Columns. , 0, , .		0
266	Enhanced Generalised Beam Theory Buckling Formulations to Handle Transverse Load Application Effects. , 0, , .		0
267	Generalised Beam Theory Formulation to Analyse the Post-Buckling Behaviour of FRP Composite Thin-Walled Members. , 0, , .		0
268	Buckling, Post-Buckling, Collapse and Design of Thin-Walled Steel Continuous Beams and Frames. , 0, , .		0
269	An efficient assessment of the vibration behaviour of cracked steel-concrete composite beams using GBT. Thin-Walled Structures, 2022, 175, 109276.	2.7	0