

Duncan Camilleri

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

417
citations

759055

12
h-index

794469

19
g-index

50
all docs

50
docs citations

50
times ranked

268
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple thermo-elastic-plastic models for welding distortion simulation. Journal of Materials Processing Technology, 2006, 176, 77-86.	3.1	60
2	Computational prediction of out-of-plane welding distortion and experimental investigation. Journal of Strain Analysis for Engineering Design, 2005, 40, 161-176.	1.0	55
3	Thermal Distortion of Stiffened Plate due to Fillet Welds Computational and Experimental Investigation. Journal of Thermal Stresses, 2006, 29, 111-137.	1.1	33
4	Computationally efficient welding distortion simulation techniques. Modelling and Simulation in Materials Science and Engineering, 2005, 13, 1365-1382.	0.8	29
5	Procedural influences on non-linear distortions in welded thin-plate fabrication. Thin-Walled Structures, 2008, 46, 1021-1034.	2.7	23
6	The influence of manufacturing variances on the progressive failure of filament wound cylindrical pressure vessels. Composite Structures, 2015, 133, 853-862.	3.1	23
7	Alternative simulation techniques for distortion of thin plate due to fillet-welded stiffeners. Modelling and Simulation in Materials Science and Engineering, 2006, 14, 1307-1327.	0.8	21
8	Design by analysis of ductile failure and buckling in torispherical pressure vessel heads. Thin-Walled Structures, 2008, 46, 963-974.	2.7	18
9	Filament Wound Composite Pressure Vessels and Pipes Subject to an Internal Pressure: An Experimental and Material Characterization Study. Journal of Pressure Vessel Technology, Transactions of the ASME, 2016, 138, .	0.4	17
10	A Progressive Failure Analysis Applied to Fiber-Reinforced Composite Plates Subject to Out-of-Plane Bending. Mechanics of Composite Materials, 2014, 49, 605-620.	0.9	16
11	The applicability of using low transformation temperature welding wire to minimize unwanted residual stresses and distortions. International Journal of Pressure Vessels and Piping, 2013, 110, 2-8.	1.2	15
12	Thermal Stresses and Distortion Developed in Mild Steel DH36 Friction Stir-Welded Plates: An Experimental and Numerical Assessment. Journal of Thermal Stresses, 2015, 38, 485-508.	1.1	15
13	Thermo-mechanical behaviour of DBC substrate assemblies subject to soldering fabrication processes. Soldering and Surface Mount Technology, 2012, 24, 100-111.	0.9	12
14	Design Support Tool for Prediction of Welding Distortion in Multiply Stiffened Plate Structures: Experimental and Computational Investigation. Journal of Ship Production, 2005, 21, 219-234.	0.2	11
15	Theoretical and finite element analysis of dynamic deformation in resonating micromirrors. Microsystem Technologies, 2018, 24, 445-455.	1.2	10
16	Air damping of high performance resonating micro-mirrors with angular vertical comb-drive actuators. Microsystem Technologies, 2022, 28, 1451-1465.	1.2	9
17	Shakedown of a Thick Cylinder With a Radial Crosshole. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.4	8
18	Local heat generation and material flow in friction stir welding of mild steel assemblies. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 586-602.	0.7	7

#	ARTICLE	IF	CITATIONS
19	Evaluating Plastic Loads in Torispherical Heads Using a New Criterion of Collapse. Journal of Pressure Vessel Technology, Transactions of the ASME, 2008, 130, .	0.4	5
20	Experimental investigation and finite element analysis of welding induced residual stresses. Journal of Strain Analysis for Engineering Design, 2012, 47, 140-152.	1.0	4
21	Design optimization of a dynamically flat resonating micro-mirror for pico-projection applications. Microsystem Technologies, 2022, 28, 1343-1355.	1.2	4
22	Gross Plastic Deformation of Axisymmetric Pressure Vessel Heads. Journal of Strain Analysis for Engineering Design, 2006, 41, 427-441.	1.0	3
23	Design-by-Analysis Methods for Asymmetric or Unbalanced Cylindrical Composite Pressure Vessels. , 2014, , .		3
24	Air damping analysis in resonating micro-mirrors. , 2018, , .		3
25	Gross Plastic Deformation of a Hemispherical Head With Cylindrical Nozzle: A Comparative Study. , 2007, , .		3
26	Understanding welding distortion: thermal fields thermo-mechanical effects. , 2014, , 53-76.		2
27	The applicability and implementation of the discrete Big Bang-Big Crunch optimisation technique for discontinuous objective function in multi-material laminated composite pressure vessels. International Journal of Pressure Vessels and Piping, 2018, 168, 39-48.	1.2	2
28	Failure Envelopes for Composite Fiber Reinforced Pipe Elbows Subject to Combined Loading”A Numerical Assessment. Journal of Pressure Vessel Technology, Transactions of the ASME, 2018, 140, .	0.4	2
29	Simplified Thermo-Elastoplastic Numerical Modelling Techniques Applied to Friction Stir Welding of Mild Steel. , 2013, , .		1
30	Fabrication of stiffened thin-plate structures and the problem of welding distortion. , 2014, , 14-38.		1
31	Design optimization of a high frequency resonating micro-mirror with low dynamic deformation. , 2017, , .		1
32	Evaluating Plastic Loads in Torispherical Heads Using a New Criterion of Collapse. , 2006, , .		1
33	Shakedown of a Thick Cylinder With a Radial Crosshole. , 2006, , 281.		0
34	Author contact details. , 2014, , ix.		0
35	Simulating welding distortion in fillet welding of stiffened plate structures. , 2014, , 233-264.		0
36	Introduction: development of computational welding mechanics approach to welding distortion. , 2014, , 1-13.		0

#	ARTICLE	IF	CITATIONS
37	Tools to deal with welding distortion: predictive modelling and research on in-process techniques. , 2014, , 39-52.		0
38	Computational simulation of welding distortion: an overview. , 2014, , 77-101.		0
39	Experimental investigation of models of welding distortion: methods, results and comparisons. , 2014, , 102-125.		0
40	Modelling thermal processes in welding. , 2014, , 126-155.		0
41	Computationally efficient methods for modelling welding processes. , 2014, , 156-176.		0
42	Finite-element thermo-mechanical techniques for welding distortion prediction. , 2014, , 177-198.		0
43	Simulating welding distortion in butt welding of thin plates. , 2014, , 199-232.		0
44	Exploiting welding distortion models: examples of design and manufacturing strategies to optimise fabrication. , 2014, , 265-319.		0
45	Recent Developments in Steel Friction Stir Welding: Project HILDA. , 2015, , .		0
46	Fibre Reinforced Composite Pressure Vessel Heads Subject to External Pressure. , 2017, , .		0
47	Composite Fibre Reinforced Pipe Elbows Subject to Combined Loading. , 2017, , .		0
48	Design by Analysis of GFRP/CFRP Composite Pressure Vessels. , 2018, , .		0
49	A Parametric Analysis on Hull Penetration Position and Frame Spacing Leading to Minimal Welding Distortion. Journal of Ship Production and Design, 2018, 34, 211-225.	0.2	0