

Pronina Yg

List of Publications by Year in descending order

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31
times ranked

47
citing authors

#	ARTICLE	IF	CITATIONS
1	The thermoelasticity problem for pressure vessels with protective coatings, operating under conditions of mechanochemical corrosion. International Journal of Engineering Science, 2022, 170, 103589.	5.0	15
2	Study of bending of plate steel with a through-the-thickness gradient of strength properties. Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya, 2022, 65, 21-27.	0.3	0
3	Analytical Solution for the Lifetime of a Spherical Shell of Arbitrary Thickness Under the Pressure of Corrosive Environments: The Effect of Thermal and Elastic Stresses. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	17
4	On Crack Propagation in a Two-Component Thermally Reinforced Pipe. Lecture Notes in Mechanical Engineering, 2020, , 179-184.	0.4	2
5	On the stress state of a pressurised pipe with an initial thickness variation, subjected to non-homogeneous internal corrosion. E3S Web of Conferences, 2019, 121, 01013.	0.5	1
6	Comment on "Generalization of the Lamé problem for three-stage decelerated corrosion process of an elastic hollow sphere". Mechanics Research Communications, 2019, 98, 52-53.	1.8	9
7	A thin-walled pressurized sphere exposed to external general corrosion and nonuniform heating. AIP Conference Proceedings, 2018, , .	0.4	0
8	The influence of the initial thickness deviation of a steel tube subjected to general corrosion under its own weight on its durability. AIP Conference Proceedings, 2018, , .	0.4	1
9	Bifurcation of shock absorber arch type made of elastomers. AIP Conference Proceedings, 2018, , .	0.4	1
10	On corrosion of a thin-walled spherical vessel under pressure. International Journal of Engineering Science, 2018, 130, 115-128.	5.0	23
11	A periodic set of edge dislocations in an elastic semi-infinite solid with a planar boundary incorporating surface effects. Engineering Fracture Mechanics, 2017, 186, 423-435.	4.3	21
12	An analytical solution for the mechanochemical growth of an elliptical hole in an elastic plane under a uniform remote load. European Journal of Mechanics, A/Solids, 2017, 61, 357-363.	3.7	23
13	Modelling the general corrosion of a steel tube under its own weight. Procedia Structural Integrity, 2017, 6, 48-55.	0.8	2
14	On the MATLAB finite element modelling of an elastic plane with a hole under tension. , 2017, , .		0
15	A New Model for the Mechanochemical Corrosion of a Thin Spherical Shell. EPJ Web of Conferences, 2016, 108, 02040.	0.3	1
16	Mechanochemical Corrosion: Modeling and Analytical Benchmarks for Initial Boundary Value Problems with Unknown Boundaries. Springer Proceedings in Mathematics and Statistics, 2016, , 301-309.	0.2	1
17	NEW BENCHMARK FOR THE LIFE ASSESSMENT OF A THIN-WALLED PIPE SUBJECTED TO STRESS ASSISTED CORROSION. , 2016, , .		1
18	Integral equations for the mixed boundary value problem of a notched elastic half-plane. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
19	Calculation of the optimal initial thickness of a spherical vessel operating in mechanochemical corrosion conditions. , 2015, , .		3
20	Generalization of the Lamé problem for three-stage decelerated corrosion process of an elastic hollow sphere. Mechanics Research Communications, 2015, 65, 30-34.	1.8	19
21	Taking account of hydrostatic pressure in the modeling of corrosion of thick spherical shells. , 2015, , .		11
22	Initial boundary value problems for mechanochemical corrosion of a thick spherical member in terms of principal stress. AIP Conference Proceedings, 2015, , .	0.4	8
23	On the applicability of thin spherical shell model for the problems of mechanochemical corrosion. AIP Conference Proceedings, 2015, , .	0.4	15
24	Comment on "New understanding of the effect of hydrostatic pressure on the corrosion of Ni-Cr-Mo high strength steel". Corrosion Science, 2015, 100, 672-673.	6.6	6
25	Analytical solution for decelerated mechanochemical corrosion of pressurized elastic-perfectly plastic thick-walled spheres. Corrosion Science, 2015, 90, 161-167.	6.6	28
26	Stress concentration near the corrosion pit on the outer surface of a thick spherical member. , 2014, , .		15
27	Study of possible void nucleation and growth in solids in the framework of the Davis-Nadai deformation theory. Mechanics of Solids, 2014, 49, 302-313.	0.7	13
28	Analytical solution for the general mechanochemical corrosion of an ideal elastic-plastic thick-walled tube under pressure. International Journal of Solids and Structures, 2013, 50, 3626-3633.	2.7	28
29	Estimation of the life of an elastic tube under the action of a longitudinal force and pressure under uniform surface corrosion conditions. Russian Metallurgy (Metally), 2010, 2010, 361-364.	0.5	15