

Surkay Akbarov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Mathematical modeling of the dynamics of a hydroelastic systemâ€”A hollow cylinder with inhomogeneous initial stresses and compressible fluid. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 7858-7872.	2.3	3
2	Axisymmetric longitudinal wave dispersion in a bi-layered circular cylinder with inhomogeneous initial stresses. <i>Journal of Sound and Vibration</i> , 2019, 450, 1-27.	3.9	13
3	The influence of the rheological parameters of a hydro-viscoelastic system consisting of a viscoelastic plate, viscous fluid and rigid wall on the frequency response of this system. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 1341-1363.	2.6	7
4	Buckling delamination of a PZT/Metal/PZT sandwich rectangular thick plate containing interface inner band cracks. <i>Composite Structures</i> , 2018, 202, 9-16.	5.8	8
5	Natural vibration of a multilayered hollow sphere filled with a compressible fluid. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
6	Calculation and 3D analyses of ERR in the band crack front contained in a rectangular plate made of multilayered material. <i>Open Chemistry</i> , 2018, 16, 516-519.	1.9	0
7	The Influence of the Viscoelasticity on the Axisymmetric Wave Attenuation in a bi-Material Solid Cylinder. <i>Acta Physica Polonica A</i> , 2018, 134, 135-138.	0.5	0
8	The forced vibration of the system consisting of an elastic plate, compressible viscous fluid and rigid wall. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 1809-1827.	2.6	8
9	Near-surface waves in a system consisting of a covering layer and a half-space with imperfect interface under two-axial initial stresses. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 55-68.	2.6	2
10	Buckling delamination of the circular sandwich plate with piezoelectric face and elastic core layers under rotationally symmetric external pressure. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
11	Three-dimensional analysis of the natural vibration of the three-layered hollow sphere with middle layer made of FGM. <i>Structural Engineering and Mechanics</i> , 2017, 61, 563-576.	1.0	3
12	Lamb wave dispersion in a PZT/metal/PZT sandwich plate with imperfect interface. <i>Waves in Random and Complex Media</i> , 2016, 26, 301-327.	2.7	5
13	On the total electro-mechanical potential energy and energy release rate at the interface crack tips in an initially stressed sandwich plate-strip with piezoelectric face and elastic core layers. <i>International Journal of Solids and Structures</i> , 2016, 88-89, 119-130.	2.7	4
14	On the dispersion of the axisymmetric longitudinal wave propagating in a bi-layered hollow cylinder made of viscoelastic materials. <i>International Journal of Solids and Structures</i> , 2016, 100-101, 195-210.	2.7	4
15	Natural vibration of the three-layered solid sphere with middle layer made of FGM: three-dimensional approach. <i>Structural Engineering and Mechanics</i> , 2016, 57, 239-263.	1.0	5
16	Dynamics of the oscillating moving load acting on the hydroelastic system consisting of the elastic plate, compressible viscous fluid and rigid wall. <i>Structural Engineering and Mechanics</i> , 2016, 59, 403-430.	1.0	3
17	On the torsional wave dispersion in a hollow sandwich circular cylinder made from viscoelastic materials. <i>Applied Mathematical Modelling</i> , 2015, 39, 3569-3587.	4.2	9
18	Torsional Wave Dispersion in Pre-stressed Compound Cylinders. , 2015, , 461-580.		0

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19	Dynamics of Pre-Strained Bi-Material Elastic Systems. , 2015, , .		28
20	3D dynamics of a prestressed stratified half-space under the action of an oscillating moving load. Applied Mathematical Modelling, 2015, 39, 1-18.	4.2	8
21	Axisymmetric Longitudinal and Flexural Wave Propagation in Pre-strained Bi-material Compound Circular Cylinders. , 2015, , 581-803.		0
22	Forced Vibration of Pre-stressed Layered Bodies. , 2015, , 143-333.		0
23	Some Problems on the Sandwich Plate-Strip with PiezoelectricPiezoelectric Face and Elastic Core Layers Containing Interface Cracks. , 2015, , 901-937.		0
24	Dynamics of a Moving and Oscillating Moving Load Acting on a Pre-strained Bi-material Layered Systems. , 2015, , 11-142.		0
25	Wave Propagation in Pre-strained Layered Systems. , 2015, , 335-460.		0
26	Buckling delamination of a sandwich plate-strip with piezoelectric face and elastic core layers. Applied Mathematical Modelling, 2013, 37, 8029-8038.	4.2	16
27	Time-harmonic Lamb's problem for a system comprising a piezoelectric layer and piezoelectric half-plane. Journal of Sound and Vibration, 2013, 332, 5375-5392.	3.9	9
28	Microbuckling of a doublewalled carbon nanotube embedded in an elastic matrix. International Journal of Solids and Structures, 2013, 50, 2584-2596.	2.7	9
29	Stability Loss in the Structure of Unidirected Fibrous Elastic and Viscoelastic Composites. , 2013, , 337-400.		0
30	Surface and Internal Stability Loss in the Structure of Elastic and Viscoelastic Layered Composites. , 2013, , 269-335.		0
31	Stability Loss Problems for Viscoelastic Plates. , 2013, , 71-133.		0
32	Buckling Delamination of Elastic and Viscoelastic Composite Plates with Cracks. , 2013, , 135-267.		0
33	Torsional Wave Propagation in Sandwich Hollow Cylinder with Pre-Strained Face (Core) Layers (Layer). Advanced Materials Research, 2012, 445, 1094-1099.	0.3	2
34	3D Analyses of the symmetric local stability loss of the circular hollow cylinder made from viscoelastic composite material. Applied Mathematical Modelling, 2012, 36, 4241-4260.	4.2	5
35	3D analyses of the global stability loss of the circular hollow cylinder made from viscoelastic composite material. European Journal of Mechanics, A/Solids, 2012, 33, 48-66.	3.7	6
36	FEM modelling of the time-harmonic dynamical stress field problem for a pre-stressed plate-strip resting on a rigid foundation. Applied Mathematical Modelling, 2011, 35, 952-964.	4.2	5

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37	Forced vibration of the pre-stressed bi-layered plate-strip with finite length resting on a rigid foundation. Applied Mathematical Modelling, 2011, 35, 250-256.	4.2	7
38	Stability loss of the micro-fiber in the elastic and viscoelastic matrix near the free convex cylindrical surface. European Journal of Mechanics, A/Solids, 2011, 30, 167-182.	3.7	5
39	Wave propagation in a pre-strained compressible elastic sandwich plate. European Journal of Mechanics, A/Solids, 2011, 30, 409-422.	3.7	11
40	Dispersion relations of axisymmetric wave propagation in initially twisted bi-material compounded cylinders. Journal of Sound and Vibration, 2011, 330, 1644-1664.	3.9	8
41	Torsional wave dispersion in a finitely pre-strained hollow sandwich circular cylinder. Journal of Sound and Vibration, 2011, 330, 4519-4537.	3.9	45
42	Time-harmonic dynamical stress field in a system comprising a pre-stressed orthotropic layer and pre-stressed orthotropic half-plane. Archive of Applied Mechanics, 2010, 80, 1271-1286.	2.2	6
43	Delamination buckling of a rectangular orthotropic composite plate containing a band crack. Mechanics of Composite Materials, 2010, 46, 493-504.	1.4	13
44	The influence of the finite initial strains on the axisymmetric wave dispersion in a circular cylinder embedded in a compressible elastic medium. International Journal of Mechanical Sciences, 2010, 52, 89-95.	6.7	12
45	Buckling delamination of a rectangular plate containing a rectangular crack and made from elastic and viscoelastic composite materials. International Journal of Solids and Structures, 2010, 47, 3426-3434.	2.7	17
46	Buckling Delamination of the Rectangular Orthotropic Thick Plate With an Edge Rectangular Crack. , 2010, , .		1
47	The Self-Balanced Shear Stresses in the Elastic Body with a Locally Curved Covered Fiber. Advances in Mechanical Engineering, 2010, 2, 954841.	1.6	0
48	Torsional wave propagation in a pre-stressed circular cylinder embedded in a pre-stressed elastic medium. Applied Mathematical Modelling, 2009, 33, 3636-3649.	4.2	38
49	Mathematical modelling and the study of the influence of initial stresses on the SIF and ERR at the crack tips in a plate-strip of orthotropic material. Applied Mathematical Modelling, 2009, 33, 3682-3692.	4.2	10
50	Torsional wave dispersion relations in a pre-stressed bi-material compounded cylinder. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2009, 89, 754-766.	1.6	13
51	On the dynamics of a finite pre-strained bi-layered slab resting on a rigid foundation under the action of an oscillating moving load. Journal of Sound and Vibration, 2009, 327, 454-472.	3.9	10
52	Dynamics of a system comprising an orthotropic layer and orthotropic half-plane under the action of an oscillating moving load. International Journal of Solids and Structures, 2009, 46, 3873-3881.	2.7	20
53	Dynamics of a system comprising a pre-stressed orthotropic layer and pre-stressed orthotropic half-plane under the action of a moving load. International Journal of Solids and Structures, 2008, 45, 4222-4235.	2.7	22
54	On the stress field in a half-plane covered by the pre-stretched layer under the action of arbitrary linearly located time-harmonic forces. Applied Mathematical Modelling, 2007, 31, 2375-2390.	4.2	18

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55	Surface undulation instability of the viscoelastic half-space covered with the stack of layers in bi-axial compression. International Journal of Mechanical Sciences, 2007, 49, 778-789.	6.7	12
56	The influence of the third order elastic constants on the dynamical interface stress field in a half-space covered with a pre-stretched layer. International Journal of Non-Linear Mechanics, 2006, 41, 417-425.	2.6	29
57	Dynamical (time-harmonic) axisymmetric interface stress field in the finite pre-strained half-space covered with the finite pre-stretched layer. International Journal of Engineering Science, 2006, 44, 93-112.	5.0	24
58	Frequency response of the axisymmetrically finite pre-stretched slab from incompressible functionally graded material on a rigid foundation. International Journal of Engineering Science, 2006, 44, 484-500.	5.0	19
59	On the dynamical axisymmetric stress field in a finite pre-stretched bilayered slab resting on a rigid foundation. Journal of Sound and Vibration, 2006, 294, 221-237.	3.9	23
60	ON THE "RESONANCE" VALUES OF THE DYNAMICAL STRESS IN THE SYSTEM COMPRISES TWO-AXIALLY PRE-STRETCHED LAYER AND HALF-SPACE. Springer Proceedings in Physics, 2006, , 469-474.	0.2	0
61	ON THE DYNAMICAL STRESS FIELD IN THE PRE-STRETCHED BILAYERED STRIP RESTING ON THE RIGID FOUNDATION. Springer Proceedings in Physics, 2006, , 225-230.	0.2	0
62	The Lamb's problem for a half-space covered with the pre-stretched layer. International Journal of Mechanical Sciences, 2005, 47, 1326-1349.	6.7	22
63	Mechanics of Curved Composites and Some Related Problems for Structural Members. Mechanics of Advanced Materials and Structures, 2004, 11, 445-515.	2.6	31
64	Axisymmetric longitudinal wave propagation in pre-stressed compound circular cylinders. International Journal of Engineering Science, 2004, 42, 769-791.	5.0	34
65	Internal stability loss of two neighbouring fibers in a viscoelastic matrix. International Journal of Engineering Science, 2004, 42, 1847-1873.	5.0	14
66	The influence of the third order elastic constants to the generalized Rayleigh wave dispersion in a pre-stressed stratified half-plane. International Journal of Engineering Science, 2003, 41, 2047-2061.	5.0	47
67	Stress distribution caused by anti-phase periodical curving of two neighbouring fibers in a composite material. European Journal of Mechanics, A/Solids, 2003, 22, 243-256.	3.7	11
68	The loss of stability analyses of an elastic and viscoelastic composite circular plate in the framework of three-dimensional linearized theory. European Journal of Mechanics, A/Solids, 2003, 22, 475-488.	3.7	13
69	On a stress analysis in the infinite elastic body with two neighbouring curved fibres. Composites Part B: Engineering, 2003, 34, 143-150.	12.0	18
70	Stability loss analyses of the elastic and viscoelastic composite rotating thick circular plate in the framework of the three-dimensional linearized theory of stability. International Journal of Mechanical Sciences, 2002, 44, 1225-1244.	6.7	14
71	On the buckling of the elastic and viscoelastic composite circular thick plate with a penny-shaped crack. European Journal of Mechanics, A/Solids, 2002, 21, 269-279.	3.7	24
72	Local buckling of the elastic and viscoelastic coating around the penny-shaped interface crack. International Journal of Engineering Science, 2002, 40, 1435-1451.	5.0	22

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73	A method of investigation of the general theory of stability problems on structural elements fabricated from viscoelastic composite materials. Composites Part B: Engineering, 2001, 32, 475-482.	12.0	29
74	The effect of initial stresses on harmonic stress fields within the stratified half plane. European Journal of Mechanics, A/Solids, 2001, 20, 385-396.	3.7	28
75	On the three-dimensional stability loss problem of the viscoelastic composite plate. International Journal of Engineering Science, 2001, 39, 1443-1457.	5.0	18
76	The theoretical strength limit in compression of viscoelastic layered composite materials. Composites Part B: Engineering, 1999, 30, 465-472.	12.0	26
77	On the fracture of the unidirectional composites in compression. International Journal of Engineering Science, 1997, 35, 1115-1136.	5.0	49
78	On the bending problems of anisotropic (orthotropic) plates resting on elastic foundations that react in compression only. International Journal of Solids and Structures, 1997, 34, 3673-3689.	2.7	16
79	On the crack problems in composite materials with curved layers. International Journal of Engineering Science, 1994, 32, 1003-1016.	5.0	13