

Đ'Đ,Ñ,Đ°Đ»Đ,Đ<sup>1</sup> ĐĐ°Đ<sup>1</sup>Đ<sup>1/4</sup>ÑÑ^Đ,Đ<sup>1/2</sup>

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9129943/publications.pdf>

Version: 2024-02-01

125  
papers

820  
citations

516710

16  
h-index

642732

23  
g-index

126  
all docs

126  
docs citations

126  
times ranked

134  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-stationary bending of a finite electromagnetoelastic rod. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000316.	1.6	1
2	On a Method for Solving Inelastic Deformation Problems of a Laminated Composite. Russian Mathematics, 2021, 65, 47-56.	0.4	0
3	Tension-Compression and Shear of Plane Test Specimens from Laminated Composites with $90^\circ$ Structure: Numerical Method of Linearized Problem and Multiscale Buckling Modes. Lobachevskii Journal of Mathematics, 2021, 42, 2006-2015.	0.9	1
4	Free and Forced Vibrations of a Composite Plate in a Perfect Compressible Fluid, Taking into Account Energy Dissipation in the Plate and Fluid. Lobachevskii Journal of Mathematics, 2021, 42, 2016-2022.	0.9	3
5	COMPLEX EIGENFREQUENCIES AND DAMPING PROPERTIES OF AN ELONGATED PLATE WITH AN INTEGRAL DAMPING COATING. Journal of Applied Mechanics and Technical Physics, 2020, 61, 599-610.	0.5	1
6	Determination of Damping Properties of an Elongated Plate with an Integral Damping Coating on the Base of Studying Complex Eigenfrequencies. Russian Mathematics, 2020, 64, 40-55.	0.4	0
7	Features of Inelastic Behavior of a Composite Under Cyclic Loading. Experimental and Theoretical Investigations. Mechanics of Composite Materials, 2020, 56, 411-422.	1.4	2
8	Numerical Modeling of Resonant Vibrations of an Elongate Plate with an Integral Damping Coating. Mechanics of Composite Materials, 2020, 56, 149-168.	1.4	3
9	Spatial Buckling Modes of a Fiber (Fiber Bundle) of Composites with a $[\pm 45]_2$ Stacking Sequence Under the Tension and Compression of Test Specimens. Mechanics of Composite Materials, 2020, 55, 743-760.	1.4	6
10	Experimental and theoretical investigations of residual strains formation under cyclic tension-compression of cross-ply fiber reinforced plastics. AIP Conference Proceedings, 2020, , .	0.4	0
11	Free and forced bending vibrations of a thin plate in a perfect compressible fluid with energy dissipation taken into account. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e201900102.	1.6	7
12	Vibration of the Plate with Integral Layer Damping: Experimental and Theoretical Studies. Structural Integrity, 2020, , 254-260.	1.4	1
13	Refined Orthotropic Plate Motion Equations for Acoustoelasticity Problem Statement. Russian Mathematics, 2020, 64, 56-65.	0.4	1
14	Averaged Mechanical Characteristics of M-Corrugation Shaped Folded Filler. Russian Aeronautics, 2020, 63, 594-603.	0.2	0
15	The Transmission of an Acoustic Wave Through a Composite Plate with Energy Dissipation in a Material Taken into Account Based on Three-Dimensional Equations of Elasticity Theory. Structural Integrity, 2020, , 248-253.	1.4	0
16	Refined Nonlinear Deformation Model of Sandwich Plates with Composite Facings and Transversal-Soft Core. Russian Mathematics, 2020, 64, 83-89.	0.4	0
17	Transformable calculation schemes in geometrically nonlinear problems of mechanics of sandwich plates with the contour reinforcing beams. Journal of Physics: Conference Series, 2019, 1158, 032043.	0.4	0
18	Residual deformations in obliquely reinforced fibrous composites: experiments on cyclic stretching. Journal of Physics: Conference Series, 2019, 1158, 032045.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Investigation of a geometrically and physically nonlinear three-point bending problem for a sandwich plate with transversally soft core. Journal of Physics: Conference Series, 2019, 1158, 032042.	0.4	0
20	Theoretical and experimental method for determining the frequency-dependent dynamic modulus of elasticity and damping characteristics of a titanium alloy OT-4. Journal of Physics: Conference Series, 2019, 1158, 032044.	0.4	2
21	Identification of the Dynamic Elasticity Characteristics and Damping Properties of the OT-4 Titanium Alloy Based on Study of Damping Flexural Vibrations of the Test Specimens. Journal of Machinery Manufacture and Reliability, 2019, 48, 119-129.	0.5	7
22	On the regularities of behavior of an elastic-viscoplastic composite under cyclic loading. Russian Mathematics, 2019, 63, 75-81.	0.4	0
23	Flat Internal Buckling Modes of Fibrous Composite Elements under Tension and Compression at the Mini- and Microscale. Journal of Applied Mechanics and Technical Physics, 2019, 60, 548-559.	0.5	8
24	Transforming Calculated Schemes in Geometrically Non-linear Mechanics Problems of the Sandwich Plates with Contour Reinforcing Beams. Lobachevskii Journal of Mathematics, 2019, 40, 400-414.	0.9	0
25	Theoretical-Experimental Method for Determining the Short- and Long-Term Creep Parameters of Technical Rubber in Shear. Mechanics of Composite Materials, 2019, 55, 435-454.	1.4	4
26	Deformation Features and Models of $[\pm 45]_2$ s Cross-Ply Fiber-Reinforced Plastics in Tension. Mechanics of Composite Materials, 2019, 55, 141-154.	1.4	14
27	Consistent Equations of Nonlinear Multilayer Shells Theory in the Quadratic Approximation. Lobachevskii Journal of Mathematics, 2019, 40, 349-363.	0.9	12
28	Contact interaction of the plate with supporting deformable bases under the conditions of bending. Journal of Physics: Conference Series, 2019, 1158, 022014.	0.4	0
29	Tension-Compression and Shear of Plane Test Specimens from Laminated Composites with the $[90^\circ]_s$ Structure. Initial Stress-Strain State. Lobachevskii Journal of Mathematics, 2019, 40, 1967-1986.	0.9	2
30	Analytical Solutions to the 3D Problem on Free Vibrations of an Orthotropic Cuboid with Free Faces. Mechanics of Composite Materials, 2019, 55, 575-596.	1.4	1
31	Refined Equations of the Sandwich Shells Theory with Composite External Layers and a Transverse Soft Core at Average Bending. Lobachevskii Journal of Mathematics, 2019, 40, 1904-1914.	0.9	1
32	Mechanics of fiber composites: Forms of loss of stability and fracture of test specimens resulting from three-point bending tests. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201800063.	1.6	21
33	Stationary Dynamic Acoustoelasticity Problems of a Thin Plate in a Perfect Compressible Fluid, Taking into Account the Dissipation of Energy in the Plate and Liquid. Structural Integrity, 2019, , 364-369.	1.4	1
34	Physical-Mechanical Properties of a Fiber-Reinforced Composite Based on an ELUR-P Carbon Tape and XT-118 Binder. Mechanics of Composite Materials, 2018, 54, 2-12.	1.4	24
35	Mechanics of Unidirectional Fiber-Reinforced Composites: Buckling Modes and Failure Under Compression Along Fibers. Mechanics of Composite Materials, 2018, 53, 737-752.	1.4	16
36	Nonlinear Theory of Sandwich Shells with a Transversely Soft Core Containing Delamination Zones and Edge Support Diaphragm. Mechanics of Solids, 2018, 53, 76-87.	0.7	1

#	ARTICLE	IF	CITATIONS
37	Formation of residual strain in cross-ply fiber reinforced plastics under compression and tension-compression conditions. AIP Conference Proceedings, 2018, . .	0.4	4
38	Defining Relations in Mechanics of Cross-Ply Fiber Reinforced Plastics Under Short-Term and Long-Term Monoaxial Load. Russian Mathematics, 2018, 62, 75-79.	0.4	9
39	Acoustic Wave Propagation Through a Plate Fixed on a Rigid Frame Via Elastic Spacers and Located Between Two Barriers. Journal of Applied Mechanics and Technical Physics, 2018, 59, 733-746.	0.5	0
40	Buckling Modes of Structural Elements of Off-Axis Fiber-Reinforced Plastics. Mechanics of Composite Materials, 2018, 54, 133-144.	1.4	8
41	Geometrically Nonlinear Problem of Longitudinal and Transverse Bending of a Sandwich Plate with Transversally Soft Core. Lobachevskii Journal of Mathematics, 2018, 39, 448-457.	0.9	31
42	Identification of Parameters of Short-Time Creep of Plexiglas By Means of Studying Decaying Flexural Vibrations of Test Samples. Journal of Applied Mechanics and Technical Physics, 2018, 59, 519-530.	0.5	2
43	Theory of Moderately Large Deflections of Sandwich Shells Having a Transversely Soft Core and Reinforced Along Their Contour. Mechanics of Composite Materials, 2017, 53, 1-16.	1.4	18
44	Transmission of sound waves through a rectangular plate supported by a system of cross ribs. Lobachevskii Journal of Mathematics, 2017, 38, 794-807.	0.9	0
45	Modeling the Dynamic Response of a Carbon-Fiber-Reinforced Plate at Resonant Vibrations Considering the Internal Friction in the Material and the External Aerodynamic Damping. Mechanics of Composite Materials, 2017, 53, 425-440.	1.4	7
46	Static and Monoharmonic Acoustic Impact on a Laminated Plate. Mechanics of Composite Materials, 2017, 53, 283-304.	1.4	12
47	Refined Models for an Analysis of Internal and External Buckling Modes of a Monolayer in a Layered Composite. Mechanics of Composite Materials, 2017, 53, 613-630.	1.4	7
48	Refined models of contact interaction of a thin plate with positioned on both sides deformable foundations. Lobachevskii Journal of Mathematics, 2017, 38, 779-793.	0.9	28
49	Investigation of Different Versions of Formulation of the Problem of Soundproofing of Rectangular Plates Surrounded with Acoustic Media. Journal of Mathematical Sciences, 2017, 220, 59-81.	0.4	3
50	Contact statement of mechanical problems of reinforced on a contour sandwich plates with transversally-soft core. Russian Mathematics, 2017, 61, 69-75.	0.4	41
51	Accounting for the frequency-dependent dynamic elastic modulus of Duralumin in deformation problems. Journal of Applied Mechanics and Technical Physics, 2017, 58, 517-528.	0.5	8
52	Non-uniformly scaled buckling modes of reinforcing elements in fiber reinforced plastic. Russian Mathematics, 2017, 61, 79-84.	0.4	2
53	Static and dynamic buckling modes of spherical shells subjected to external pressure. Russian Mathematics, 2016, 60, 37-46.	0.4	1
54	Identification of the elastic and damping characteristics of carbon fiber-reinforced plastic based on a study of damping flexural vibrations of test specimens. Journal of Applied Mechanics and Technical Physics, 2016, 57, 720-730.	0.5	7

#	ARTICLE	IF	CITATIONS
55	Development of An Improved Technique For Identification of the Damping Properties of Orthogonally Reinforced Composites in Shear. <i>Mechanics of Composite Materials</i> , 2016, 52, 133-142.	1.4	3
56	Identification of the Elastic and Damping Characteristics of Soft Materials Based on the Analysis of Damped Flexural Vibrations of Test Specimens. <i>Mechanics of Composite Materials</i> , 2016, 52, 435-454.	1.4	19
57	Theoretical-experimental method of determining the drag coefficient of a harmonically oscillating thin plate. <i>Journal of Applied Mechanics and Technical Physics</i> , 2016, 57, 275-282.	0.5	10
58	Refined geometrically nonlinear equations of motion for elongated rod-type plate. <i>Russian Mathematics</i> , 2016, 60, 74-78.	0.4	2
59	Theoretical-Experimental Method for Evaluating the Elastic and Damping Characteristics of Soft Materials Based on Studying the Resonance Flexural Vibrations of Test Specimens. <i>Mechanics of Composite Materials</i> , 2016, 52, 571-582.	1.4	6
60	Modeling the Elastic and Damping Properties of the Multilayered Torsion Bar-Blade Structure of Rotors of Light Helicopters of the New Generation 2. Finite-Element Approximation of Blades and a Model of Coupling of the Torsion Bar with the Blades. <i>Mechanics of Composite Materials</i> , 2016, 51, 771-788.	1.4	2
61	Sound-wave passage through a composite plate with a vibration-absorbing surface. <i>Doklady Physics</i> , 2015, 60, 263-268.	0.7	4
62	Acoustoelastic Behaviour of Double-Layer Plates Accounting Internal Damping of Layer Materials. <i>Procedia Engineering</i> , 2015, 106, 325-335.	1.2	3
63	Modeling the Elastic and Damping Properties of the Multilayered Torsion Bar-Blade Structure of Rotors of Light Helicopters of the New Generation. 1. Finite-Element Approximation of the Torsion Bar. <i>Mechanics of Composite Materials</i> , 2015, 51, 609-628.	1.4	7
64	Solving physically nonlinear equilibrium problems for sandwich plates with a transversally soft core. <i>Lobachevskii Journal of Mathematics</i> , 2015, 36, 474-481.	0.9	38
65	On the interaction of composite plate having a vibration-absorbing covering with incident acoustic wave. <i>Russian Mathematics</i> , 2015, 59, 66-71.	0.4	22
66	Theoretical-Experimental Method for Determining the Material Damping Properties Based on the Damped Flexural Vibrations of Test Samples. <i>Procedia Engineering</i> , 2015, 106, 231-239.	1.2	2
67	Solvability of physically and geometrically nonlinear problem of the theory of sandwich plates with transversally-soft core. <i>Russian Mathematics</i> , 2015, 59, 57-60.	0.4	50
68	Identification of the Elasticity and Damping Characteristics of a Fiberglass Based on a Study of Dying Flexural Vibrations of Test Samples. <i>Mechanics of Composite Materials</i> , 2015, 51, 285-300.	1.4	11
69	Theoretical-Experimental Method for Determining the Parameters of Damping Based on the Study of Damped Flexural Vibrations of Test Specimens. 3. Identification of the Characteristics of Internal Damping. <i>Mechanics of Composite Materials</i> , 2014, 50, 633-646.	1.4	24
70	Soundproof Properties of a One-Dimensional Three-Layer Plate. <i>Journal of Mathematical Sciences</i> , 2014, 203, 104-113.	0.4	1
71	Relationships of the Timoshenko-type theory of thin shells with arbitrary displacements and strains. <i>Journal of Applied Mechanics and Technical Physics</i> , 2014, 55, 843-856.	0.5	2
72	On the Problems of Emission of Sound Waves in the Dynamic Process of Deformation of Plates with Regard for External and Internal Damping. <i>Journal of Mathematical Sciences</i> , 2014, 203, 87-103.	0.4	1

#	ARTICLE	IF	CITATIONS
73	Theoretical-Experimental Method for Determining the Parameters of Damping Based on the Study of Damped Flexural Vibrations of Test Specimens 2. Aerodynamic Component of Damping. Mechanics of Composite Materials, 2014, 50, 267-278.	1.4	28
74	Contact formulation of non-linear problems in the mechanics of shells with their end sections connected by a plane curvilinear rod. Prikladnaya Matematika I Mekhanika, 2014, 78, 84-98.	0.4	7
75	Theoretical-Experimental Method for Determining the Parameters of Damping Based on the Study of Damped Flexural Vibrations of Test Specimens. 1. Experimental Basis. Mechanics of Composite Materials, 2014, 50, 127-136.	1.4	34
76	Static and dynamic buckling modes of a cylindrical shell under external pressure. Mechanics of Solids, 2014, 49, 83-98.	0.7	4
77	Dynamic instability of a compressible plate surrounded by an acoustic medium on free surfaces. Doklady Physics, 2014, 59, 158-162.	0.7	3
78	Theoretical and experimental technique of determining the mechanical characteristics of folded structure filler in the form of Z-crimp (shear of a filler in cross-sectional planes). Russian Aeronautics, 2013, 56, 234-246.	0.2	6
79	Analytic solutions for a free vibration problem of a thin rectangular parallelepiped (plate) with free faces. Lobachevskii Journal of Mathematics, 2012, 33, 374-385.	0.9	1
80	Computational-experimental method to determine the averaged elastic and strength characteristics of fillers of multilayered structures in shear. Mechanics of Composite Materials, 2012, 48, 355-368.	1.4	2
81	Average elastic and strength characteristics of a honeycomb core and a theoretical-experimental method of their determination. Mechanics of Composite Materials, 2012, 48, 511-524.	1.4	3
82	Theoretical and experimental technique of determining the mechanical characteristics of folded structure core in the form of Z-crimp. Theoretical foundations and core compression in transverse direction. Russian Aeronautics, 2012, 55, 233-244.	0.2	2
83	A study of elasticity and plasticity equations under arbitrary displacements and strains. Mechanics of Solids, 2011, 46, 213-224.	0.7	1
84	Approximate analytical solutions of stability problems for skew plates under combined loading. Russian Aeronautics, 2011, 54, 115-124.	0.2	4
85	Theoretical-experimental method for determining the averaged elastic and strength characteristics of a honeycomb core of sandwich designs. Mechanics of Composite Materials, 2011, 47, 377-386.	1.4	11
86	Definition of averaged elastic-plastic characteristics of sandwich panel structures. , 2011, , .		0
87	Quality analysis of nonlinear elasticity theory for the stability problems of planar laminated curved beams. Problem statement. Russian Aeronautics, 2010, 53, 167-172.	0.2	1
88	Quality analysis of nonlinear elasticity theory for the stability problems of planar laminated curved beams. Algorithm and results of numerical study. Russian Aeronautics, 2010, 53, 264-270.	0.2	2
89	Exact analytical and numerical solutions of stability problems for a straight composite bar subjected to axial compression and torsion. Mechanics of Composite Materials, 2009, 45, 113-136.	1.4	2
90	Studies of quality of geometrically nonlinear elasticity theory for small strains and arbitrary displacements. Mechanics of Solids, 2009, 44, 837-851.	0.7	23

#	ARTICLE	IF	CITATIONS
91	On static and dynamic buckling modes of a rod-strip loaded by follower forces. Mechanics of Solids, 2008, 43, 600-609.	0.7	1
92	Exact analytic solutions to the problem on plane buckling modes of rectangular orthotropic plates with free edges under biaxial loading. Mechanics of Composite Materials, 2007, 43, 97-112.	1.4	0
93	Mechanics of composite materials in fuel cell systems. Mechanics of Composite Materials, 2005, 41, 1-8.	1.4	4
94	Shear buckling modes of cylindrical sandwich shells under external pressure, tension-compression of bearing layers with unequal forces, and inhomogeneous across-the-thickness temperature. Mechanics of Composite Materials, 2005, 41, 23-32.	1.4	0
95	Exact and Approximate Analytical Solutions to a Problem on Plane Modes of Free Oscillations of a Rectangular Orthotropic Plate with Free Edges, with the Use of Trigonometric Basis Functions. Mechanics of Composite Materials, 2005, 41, 313-332.	1.4	5
96	Consistent variant of continuum deformation theory in the quadratic approximation. Doklady Physics, 2004, 49, 374-377.	0.7	15
97	Stress-Strain State of a Cylindrical Sandwich Shell in an Axisymmetric Temperature Field Inhomogeneous across the Thickness. Mechanics of Composite Materials, 2004, 40, 203-216.	1.4	4
98	Shear and Flexural Buckling Modes of a Spherical Sandwich Shell in a Centrosymmetric Temperature Field Inhomogeneous across the Thickness. Mechanics of Composite Materials, 2004, 40, 309-330.	1.4	2
99	Research in the flexural buckling modes of a cylindrical sandwich shell under the action of a temperature field inhomogeneous across its thickness. Mechanics of Composite Materials, 2004, 40, 461-472.	1.4	4
100	Refined equations of the average bending of three-layer shells and shear forms of stability loss. Doklady Physics, 2003, 48, 522-527.	0.7	0
101	Title is missing!. Mechanics of Composite Materials, 2001, 37, 495-510.	1.4	5
102	Shear Buckling Form of a Circular Sandwich Ring under Uniform External Pressure. Mechanics of Composite Materials, 2001, 37, 127-130.	1.4	3
103	Classical and Nonclassical Dynamic Problems of Sandwich Shells with a Transversely Soft Core. Mechanics of Composite Materials, 2001, 37, 175-188.	1.4	1
104	Shearing form of stability loss for a three-layer circular ring under the action of uniform external pressure. Doklady Physics, 2001, 46, 346-348.	0.7	0
105	Refined geometric nonlinear theory of sandwich shells with a transversely soft core of medium thickness for investigation of mixed buckling forms. Mechanics of Composite Materials, 2000, 36, 59-66.	1.4	24
106	Buckling forms of homogeneous and sandwich plates in pure shear in tangential directions. Mechanics of Composite Materials, 2000, 36, 131-138.	1.4	2
107	Stability problem of a circular sandwich ring under uniform external pressure. Mechanics of Composite Materials, 2000, 36, 185-192.	1.4	4
108	A refined statement of dynamic problems of sandwich shells with transversely soft core and a numerical-analytical method of their solution. Journal of Applied Mechanics and Technical Physics, 1995, 36, 599-610.	0.5	4

#	ARTICLE	IF	CITATIONS
109	Numerical analysis method for studying local forms of stability loss of bearing layers of three-layered shells using mixed forms. <i>Mechanics of Composite Materials</i> , 1995, 31, 69-79.	1.4	5
110	Stress-strain state and stability of composite sandwich shells with a scaling zone between the core and facings. <i>Mechanics of Composite Materials</i> , 1994, 29, 473-484.	1.4	2
111	Stability of multilayered shallow shells with transversal-soft fillers. <i>Mechanics of Composite Materials</i> , 1994, 30, 267-283.	1.4	3
112	Relations of the nonlinear theory of three-layered shells with layers of variable thickness. <i>Journal of Applied Mechanics and Technical Physics</i> , 1993, 34, 403-410.	0.5	0
113	Mathematical modeling of processes of devising fibrous composite materials and thin-walled structural elements by forced winding. 2. Algorithm for determining effective moduli of elasticity and model problems. <i>Mechanics of Composite Materials</i> , 1991, 26, 543-550.	1.4	1
114	Problem of determining residual processing stresses and displacements in three-layer elements made of composite materials produced by mechanical winding. <i>Mechanics of Composite Materials</i> , 1991, 27, 96-102.	1.4	0
115	Mathematical modeling of processes of devising fibrous composite materials and thin-walled structural elements by forced winding. <i>Mechanics of Composite Materials</i> , 1990, 26, 386-398.	1.4	1
116	Application of a generalized variational Hamilton-Ostrogradskii-Reissner principle to the formulation of linearized problems of the mechanics of spatial composite bodies. <i>Soviet Applied Mechanics</i> , 1989, 25, 877-883.	0.0	0
117	Nonlinear theory of the central bending of three-layer shells with defects in the form of sections of bonding failure. <i>Soviet Applied Mechanics</i> , 1987, 23, 1038-1043.	0.0	21
118	A variant of the nonlinear theory of thin shells of Timoshenko type. <i>Soviet Applied Mechanics</i> , 1986, 22, 738-744.	0.0	0
119	Linear theory of adhesion-bonded joints. <i>Mechanics of Composite Materials</i> , 1986, 22, 284-289.	1.4	0
120	Variational statement of mechanics of composite bodies of piecewise-homogeneous structure. <i>Soviet Applied Mechanics</i> , 1985, 21, 24-31.	0.0	4
121	Forms of stability loss of three-layer sheets and shells with external layers made of homogeneous or reinforced materials. <i>Mechanics of Composite Materials</i> , 1985, 21, 64-69.	1.4	6
122	Stability of an infinitely wide three-layer plate with the axial compression of one layer. <i>Mechanics of Composite Materials</i> , 1985, 21, 194-200.	1.4	2
123	Numerical study of the stress-strain state of one- and three-layer plates and shells of complex geometry. <i>Soviet Applied Mechanics</i> , 1983, 19, 583-588.	0.0	3
124	Calculation of plates and shells with a complex contour. <i>Soviet Applied Mechanics</i> , 1980, 16, 316-322.	0.0	0
125	Determination of stress-strain state of geometrically nonlinear sandwich plate. <i>Applied Mathematical Sciences</i> , 0, 9, 3887-3895.	0.1	24