

Xiao-ting He

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A semi-analytical method for free vibration of semi-closed shells of revolution with variable curvature. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 2198-2213.	2.6	1
2	Theoretical Study on Thermal Stresses of Metal Bars with Different Moduli in Tension and Compression. <i>Metals</i> , 2022, 12, 347.	2.3	5
3	A Further Theoretical Study of Capacitive Pressure Sensors Based on Thin Film Elastic Deflection and Parallel Plate Capacitor: Refined Closed-Form Solution and Numerical Calibration. <i>Sensors</i> , 2022, 22, 2848.	3.8	2
4	Revisiting the Boundary Value Problem for Uniformly Transversely Loaded Hollow Annular Membrane Structures: Improvement of the Out-of-Plane Equilibrium Equation. <i>Mathematics</i> , 2022, 10, 1305.	2.2	3
5	Nonlinear large deformation problem of rectangular thin plates and its perturbation solution under cylindrical bending: Transform from plate/membrane to beam/cable. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2022, 102, .	1.6	3
6	One- and Two-Dimensional Analytical Solutions of Thermal Stress for Bimodular Functionally Graded Beams under Arbitrary Temperature Rise Modes. <i>Mathematics</i> , 2022, 10, 1756.	2.2	5
7	A Refined Closed-Form Solution for the Large Deflections of Alekseev-Type Annular Membranes Subjected to Uniformly Distributed Transverse Loads: Simultaneous Improvement of Out-of-Plane Equilibrium Equation and Geometric Equation. <i>Mathematics</i> , 2022, 10, 2121.	2.2	1
8	Closed-Form Solution for Circular Membranes under In-Plane Radial Stretching or Compressing and Out-of-Plane Gas Pressure Loading. <i>Mathematics</i> , 2021, 9, 1238.	2.2	5
9	Steady Fluid-Structure Coupling Interface of Circular Membrane under Liquid Weight Loading: Closed-Form Solution for Differential-Integral Equations. <i>Mathematics</i> , 2021, 9, 1105.	2.2	3
10	A Two-Dimensional Thermoelasticity Solution for Bimodular Material Beams under the Combination Action of Thermal and Mechanical Loads. <i>Mathematics</i> , 2021, 9, 1556.	2.2	5
11	Axisymmetric Large Deflection Elastic Analysis of Hollow Annular Membranes under Transverse Uniform Loading. <i>Symmetry</i> , 2021, 13, 1770.	2.2	7
12	Large Deformation Problem of Bimodular Functionally-Graded Thin Circular Plates Subjected to Transversely Uniformly-Distributed Load: Perturbation Solution without Small-Rotation-Angle Assumption. <i>Mathematics</i> , 2021, 9, 2317.	2.2	3
13	A Closed-Form Solution without Small-Rotation-Angle Assumption for Circular Membranes under Gas Pressure Loading. <i>Mathematics</i> , 2021, 9, 2269.	2.2	2
14	Application of Variational Method to Stability Analysis of Cantilever Vertical Plates with Bimodular Effect. <i>Materials</i> , 2021, 14, 6129.	2.9	2
15	Large Deflection Analysis of Peripherally Fixed Circular Membranes Subjected to Liquid Weight Loading: A Refined Design Theory of Membrane Deflection-Based Rain Gauges. <i>Materials</i> , 2021, 14, 5992.	2.9	3
16	A Theoretical Study on an Elastic Polymer Thin Film-Based Capacitive Wind-Pressure Sensor. <i>Polymers</i> , 2020, 12, 2133.	4.5	10
17	Vibration Analysis of Piezoelectric Cantilever Beams with Bimodular Functionally-Graded Properties. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5557.	2.5	11
18	Large Deflection Analysis of Axially Symmetric Deformation of Prestressed Circular Membranes under Uniform Lateral Loads. <i>Symmetry</i> , 2020, 12, 1343.	2.2	8

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19	Closed-Form Solution and Experimental Verification for the Axisymmetric Deformation Problem of Blistering Circular Thin Polymer Films under Uniformly Distributed Gas Pressure. <i>Polymers</i> , 2020, 12, 1130.	4.5	3
20	Application of Multi-Parameter Perturbation Method to Functionally-Graded, Thin, Circular Piezoelectric Plates. <i>Mathematics</i> , 2020, 8, 342.	2.2	10
21	A Closed-Form Solution of Prestressed Annular Membrane Internally-Connected with Rigid Circular Plate and Transversely-Loaded by Central Shaft. <i>Mathematics</i> , 2020, 8, 521.	2.2	5
22	A Closed-Form Solution for the Boundary Value Problem of Gas Pressurized Circular Membranes in Contact with Frictionless Rigid Plates. <i>Mathematics</i> , 2020, 8, 1017.	2.2	5
23	Free Damping Vibration of Piezoelectric Cantilever Beams: A Biparametric Perturbation Solution and Its Experimental Verification. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 215.	2.5	5
24	A New Solution to Well-Known Hencky Problem: Improvement of In-Plane Equilibrium Equation. <i>Mathematics</i> , 2020, 8, 653.	2.2	9
25	A Revisit of the Boundary Value Problem for “Hencky Membranes: Improvement of Geometric Equations. <i>Mathematics</i> , 2020, 8, 631.	2.2	16
26	One-Dimensional Theoretical Solution and Two-Dimensional Numerical Simulation for Functionally-Graded Piezoelectric Cantilever Beams with Different Properties in Tension and Compression. <i>Polymers</i> , 2019, 11, 1728.	4.5	7
27	Application of biparametric perturbation method to functionally graded thin plates with different moduli in tension and compression. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2019, 99, e201800213.	1.6	5
28	Bending analysis of functionally graded curved beams with different properties in tension and compression. <i>Archive of Applied Mechanics</i> , 2019, 89, 1973-1994.	2.2	11
29	A Multi-Parameter Perturbation Solution and Experimental Verification for Bending Problem of Piezoelectric Cantilever Beams. <i>Polymers</i> , 2019, 11, 1934.	4.5	4
30	An elasticity solution of functionally graded beams with different moduli in tension and compression. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 143-154.	2.6	17
31	An electroelastic solution for functionally graded piezoelectric material beams with different moduli in tension and compression. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1649-1669.	2.5	10
32	A Multi-Parameter Perturbation Solution for Functionally Graded Piezoelectric Cantilever Beams under Combined Loads. <i>Materials</i> , 2018, 11, 1222.	2.9	8
33	Closed-Form Solution of a Peripherally Fixed Circular Membrane under Uniformly Distributed Transverse Loads and Deflection Restrictions. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-9.	1.1	3
34	Non-Linear Bending of Functionally Graded Thin Plates with Different Moduli in Tension and Compression and Its General Perturbation Solution. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 731.	2.5	9
35	Theoretical Study on Synchronous Characterization of Surface and Interfacial Mechanical Properties of Thin-Film/Substrate Systems with Residual Stress Based on Pressure Blister Test Technique. <i>Polymers</i> , 2018, 10, 49.	4.5	11
36	One-Dimensional and Two-Dimensional Analytical Solutions for Functionally Graded Beams with Different Moduli in Tension and Compression. <i>Materials</i> , 2018, 11, 830.	2.9	14

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37	An Electroelastic Solution for Functionally Graded Piezoelectric Circular Plates under the Action of Combined Mechanical Loads. <i>Materials</i> , 2018, 11, 1168.	2.9	4
38	Stochastic nonlinear vibration and reliability of orthotropic membrane structure under impact load. <i>Thin-Walled Structures</i> , 2017, 119, 247-255.	5.3	40
39	Application of perturbation idea to well-known Hencky problem: A perturbation solution without small-rotation-angle assumption. <i>Mechanics Research Communications</i> , 2017, 83, 32-46.	1.8	11
40	A theoretical study of an improved capacitive pressure sensor: Closed-form solution of uniformly loaded annular membranes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 111, 84-92.	5.0	17
41	A biparametric perturbation method for the von Kármán equations of bimodular thin plates. <i>Journal of Mathematical Analysis and Applications</i> , 2017, 455, 1688-1705.	1.0	11
42	Closed-form solution of well-known Hencky problem without small-rotation-angle assumption. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2016, 96, 1434-1441.	1.6	22
43	A perturbation solution of von-Kármán circular plates with different moduli in tension and compression under concentrated force. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 318-327.	2.6	1
44	Simplified theory and analytical solution for functionally graded thin plates with different moduli in tension and compression. <i>Mechanics Research Communications</i> , 2016, 74, 72-80.	1.8	17
45	Large Displacement Analysis of Rectangular Orthotropic Membranes Under Stochastic Impact Loading. <i>International Journal of Structural Stability and Dynamics</i> , 2016, 16, 1640007.	2.4	11
46	Closed-form solution of elastic circular membrane with initial stress under uniformly distributed loads: Extended Hencky solution. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2015, 95, 1335-1341.	1.6	18
47	Analytical Solutions for Bending Curved Beams with Different Moduli in Tension and Compression. <i>Mechanics of Advanced Materials and Structures</i> , 2015, 22, 325-337.	2.6	13
48	Nonlinear Free Vibration Analysis of Axisymmetric Polar Orthotropic Circular Membranes under the Fixed Boundary Condition. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-8.	1.1	5
49	Theoretical study on shaft-loaded blister test technique: Synchronous characterization of surface and interfacial mechanical properties. <i>International Journal of Adhesion and Adhesives</i> , 2014, 51, 128-139.	2.9	13
50	Application of a biparametric perturbation method to large-deflection circular plate problems with a bimodular effect under combined loads. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 420, 48-65.	1.0	14
51	Theoretical study of adhesion energy measurement for film/substrate interface using pressurized blister test: Energy release rate. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 2278-2287.	5.0	20
52	Nonlinear large deflection problems of beams with gradient: A biparametric perturbation method. <i>Applied Mathematics and Computation</i> , 2013, 219, 7493-7513.	2.2	21
53	General perturbation solution of large-deflection circular plate with different moduli in tension and compression under various edge conditions. <i>International Journal of Non-Linear Mechanics</i> , 2013, 55, 110-119.	2.6	25
54	Power series solution of circular membrane under uniformly distributed loads: investigation into Hencky transformation. <i>Structural Engineering and Mechanics</i> , 2013, 45, 631-641.	1.0	20

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55	NONLINEAR INSTABILITY OF DISHED SHALLOW SHELLS UNDER UNIFORMLY DISTRIBUTED LOAD. International Journal of Structural Stability and Dynamics, 2012, 12, 1250035.	2.4	6
56	Study on Dynamic Response of Rectangular Orthotropic Membranes Under Impact Loading. Journal of Adhesion Science and Technology, 2012, 26, 1467-1479.	2.6	19
57	Large-deflection axisymmetric deformation of circular clamped plates with different moduli in tension and compression. International Journal of Mechanical Sciences, 2012, 62, 103-110.	6.7	20
58	A practical method for simultaneous determination of Poisson's ratio and Young's modulus of elasticity of thin films. Journal of Mechanical Science and Technology, 2011, 25, 3165-3171.	1.5	20
59	A Theoretical Study of Thin Film Delamination Using Clamped Punch-Loaded Blister Test: Energy Release Rate and Closed-Form Solution. Journal of Adhesion Science and Technology, 2011, 25, 2063-2080.	2.6	17
60	Application of the Kirchhoff hypothesis to bending thin plates with different moduli in tension and compression. Journal of Mechanics of Materials and Structures, 2010, 5, 755-769.	0.6	29
61	A review on the research of mechanical problems with different moduli in tension and compression. Journal of Mechanical Science and Technology, 2010, 24, 1845-1854.	1.5	67
62	A theoretical study of a clamped punch-loaded blister configuration: The quantitative relation of load and deflection. International Journal of Mechanical Sciences, 2010, 52, 928-936.	6.7	28
63	An analytical solution of bending thin plates with different moduli in tension and compression. Structural Engineering and Mechanics, 2010, 36, 363-380.	1.0	20
64	Glycyrrhetic acid-modified nanoparticles for drug delivery: Preparation and characterization. Science Bulletin, 2009, 54, 3121-3126.	1.7	22
65	Convergence analysis of a finite element method based on different moduli in tension and compression. International Journal of Solids and Structures, 2009, 46, 3734-3740.	2.7	67
66	Applying the equivalent section method to solve beam subjected to lateral force and bending-compression column with different moduli. International Journal of Mechanical Sciences, 2007, 49, 919-924.	6.7	31
67	Biparametric perturbation solutions of large deflection problem of cantilever beams. Applied Mathematics and Mechanics (English Edition), 2006, 27, 453-460.	3.6	12