

Gennady Kulikov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6340116/publications.pdf>

Version: 2024-02-01

110
papers

1,457
citations

304743

22
h-index

434195

31
g-index

111
all docs

111
docs citations

111
times ranked

369
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Exact geometry SaS-based solid-shell element for coupled thermoelectroelastic analysis of smart structures with temperature-dependent material properties. <i>Acta Mechanica</i> , 2023, 234, 163-189. | 2.1 | 2 |
| 2 | Three-dimensional thermoelectroelastic analysis of structures with distributed piezoelectric sensors and actuators with temperature-dependent material properties. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 3979-3996. | 2.6 | 2 |
| 3 | High-precision stress calculations for composite cylindrical shells with general boundary conditions using strong SaS formulation and extended DQ method. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 3359-3371. | 2.6 | 2 |
| 4 | Coupled thermoelectroelastic analysis of thick and thin laminated piezoelectric structures by exact geometry solid-shell elements based on the sampling surfaces method. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 2446-2477. | 2.8 | 4 |
| 5 | Multi-layered plate finite element models with node-dependent kinematics for smart structures with piezoelectric components. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 164-175. | 5.3 | 7 |
| 6 | Controlling the Shape of Laminated Composite Plates with Piezoelectric Patches under Thermal Loading Based on the Reference Surface Method. <i>Mechanics of Solids</i> , 2021, 56, 646-660. | 0.7 | 1 |
| 7 | Modeling and analysis of spiral actuators by exact geometry piezoelectric solid-shell elements. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 53-70. | 2.5 | 3 |
| 8 | Application of strong SaS formulation and enhanced DQ method to 3D stress analysis of rectangular plates. <i>European Journal of Mechanics, A/Solids</i> , 2020, 79, 103861. | 3.7 | 5 |
| 9 | Exact geometry four-node solid-shell element for stress analysis of functionally graded shell structures via advanced SaS formulation. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 948-964. | 2.6 | 12 |
| 10 | Nonlinear displacement-based and hybrid-mixed quadrilaterals for three-dimensional stress analysis through sampling surfaces formulation. <i>Thin-Walled Structures</i> , 2020, 155, 106918. | 5.3 | 6 |
| 11 | Shape Control of Composite Plates with Distributed Piezoelectric Actuators in a Three-Dimensional Formulation. <i>Mechanics of Composite Materials</i> , 2020, 56, 557-572. | 1.4 | 7 |
| 12 | Assessment of nonlinear exact geometry sampling surfaces solid-shell elements and ANSYS solid elements for 3D stress analysis of piezoelectric shell structures. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 3795-3823. | 2.8 | 6 |
| 13 | Three-dimensional stress analysis of structures in instability conditions using nonlinear displacement-based and hybrid-mixed quadrilaterals based on SaS formulation. <i>International Journal of Non-Linear Mechanics</i> , 2020, 126, 103540. | 2.6 | 3 |
| 14 | Evaluation of shear and membrane locking in refined hierarchical shell finite elements for laminated structures. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2019, 6, . | 1.7 | 8 |
| 15 | Finite rotation exact geometry solid-shell element for laminated composite structures through extended SaS formulation and 3D analytical integration. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 119, 852-878. | 2.8 | 7 |
| 16 | Three-dimensional vibration analysis of simply supported laminated cylindrical shells and panels by a strong SaS formulation. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2019, 99, e201800100. | 1.6 | 6 |
| 17 | Analysis of the second Piola-Kirchhoff stress in nonlinear thick and thin structures using exact geometry SaS solid-shell elements. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 117, 498-522. | 2.8 | 8 |
| 18 | Electro-mechanical analysis of composite and sandwich multilayered structures by shell elements with node-dependent kinematics. <i>International Journal of Smart and Nano Materials</i> , 2018, 9, 1-33. | 4.2 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A robust, four-node, quadrilateral element for stress analysis of functionally graded plates through higher-order theories. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 1383-1402. | 2.6 | 17 |
| 20 | Multilayered plate elements with node-dependent kinematics for electro-mechanical problems. <i>International Journal of Smart and Nano Materials</i> , 2018, 9, 279-317. | 4.2 | 32 |
| 21 | Hybrid-Mixed Solid-Shell Element for Stress Analysis of Laminated Piezoelectric Shells through Higher-Order Theories. <i>Advanced Structured Materials</i> , 2018, , 45-68. | 0.5 | 8 |
| 22 | Exact geometry SaS solid-shell element for 3D stress analysis of FGM piezoelectric structures. <i>Curved and Layered Structures</i> , 2018, 5, 116-135. | 1.3 | 9 |
| 23 | An analytical approach to three-dimensional coupled thermoelectroelastic analysis of functionally graded piezoelectric plates. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 435-450. | 2.5 | 18 |
| 24 | Assessment of the sampling surfaces formulation for thermoelectroelastic analysis of layered and functionally graded piezoelectric shells. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 392-409. | 2.6 | 13 |
| 25 | Three-Dimensional Solution of the Free Vibration Problem for Metal-Ceramic Shells Using the Method of Sampling Surfaces. <i>Mechanics of Composite Materials</i> , 2017, 53, 31-44. | 1.4 | 4 |
| 26 | Strong sampling surfaces formulation for laminated composite plates. <i>Composite Structures</i> , 2017, 172, 73-82. | 5.8 | 9 |
| 27 | Benchmark solutions for the free vibration of layered piezoelectric plates based on a variational formulation. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2688-2704. | 2.5 | 8 |
| 28 | Strong SaS formulation for free and forced vibrations of laminated composite plates. <i>Composite Structures</i> , 2017, 180, 286-297. | 5.8 | 7 |
| 29 | Strong sampling surfaces formulation for layered shells. <i>International Journal of Solids and Structures</i> , 2017, 121, 75-85. | 2.7 | 14 |
| 30 | A hybrid-mixed four-node quadrilateral plate element based on sampling surfaces method for 3D stress analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 108, 26-54. | 2.8 | 19 |
| 31 | Three-dimensional vibration analysis of layered and functionally graded plates through sampling surfaces formulation. <i>Composite Structures</i> , 2016, 152, 349-361. | 5.8 | 15 |
| 32 | MITC9 shell finite elements with miscellaneous through-the-thickness functions for the analysis of laminated structures. <i>Composite Structures</i> , 2016, 154, 360-373. | 5.8 | 43 |
| 33 | Hybrid-mixed ANS finite elements for stress analysis of laminated composite structures: Sampling surfaces plate formulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 303, 374-399. | 6.6 | 13 |
| 34 | Sampling surfaces formulation for thermoelastic analysis of laminated functionally graded shells. <i>Meccanica</i> , 2016, 51, 1913-1929. | 2.0 | 9 |
| 35 | Exact geometry solid-shell element based on a sampling surfaces technique for 3D stress analysis of doubly-curved composite shells. <i>Curved and Layered Structures</i> , 2015, 3, . | 1.3 | 6 |
| 36 | Coupled thermoelectroelastic stress analysis of piezoelectric shells. <i>Composite Structures</i> , 2015, 124, 65-76. | 5.8 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | The Use of 9-Parameter Shell Theory for Development of Exact Geometry 12-Node Quadrilateral Piezoelectric Laminated Solid-Shell Elements. <i>Mechanics of Advanced Materials and Structures</i> , 2015, 22, 490-502. | 2.6 | 18 |
| 38 | Three-Dimensional Analysis of Metal-Ceramic Shells by the Method of Sampling Surfaces. <i>Mechanics of Composite Materials</i> , 2015, 51, 455-464. | 1.4 | 5 |
| 39 | Exact 3D Thermoelastoelectric Analysis of Piezoelectric Plates through a Sampling Surfaces Method. <i>Mechanics of Advanced Materials and Structures</i> , 2015, 22, 33-43. | 2.6 | 9 |
| 40 | A sampling surfaces method and its implementation for 3D thermal stress analysis of functionally graded plates. <i>Composite Structures</i> , 2015, 120, 315-325. | 5.8 | 22 |
| 41 | Three-dimensional thermal stress analysis of laminated composite plates with general layups by a sampling surfaces method. <i>European Journal of Mechanics, A/Solids</i> , 2015, 49, 214-226. | 3.7 | 16 |
| 42 | Three-Dimensional Exact Analysis of Functionally Graded Laminated Composite Plates. <i>Advanced Structured Materials</i> , 2015, , 223-241. | 0.5 | 4 |
| 43 | 3D exact thermoelastic analysis of laminated composite shells via sampling surfaces method. <i>Composite Structures</i> , 2014, 115, 120-130. | 5.8 | 12 |
| 44 | Exact electroelastic analysis of functionally graded piezoelectric shells. <i>International Journal of Solids and Structures</i> , 2014, 51, 13-25. | 2.7 | 24 |
| 45 | Solution of three-dimensional problems for thick elastic shells by the method of reference surfaces. <i>Mechanics of Solids</i> , 2014, 49, 403-412. | 0.7 | 22 |
| 46 | Analytical method for solving three-dimensional thermoelasticity problems for composite shells. <i>Journal of Machinery Manufacture and Reliability</i> , 2014, 43, 132-139. | 0.5 | 1 |
| 47 | Heat conduction analysis of laminated shells by a sampling surfaces method. <i>Mechanics Research Communications</i> , 2014, 55, 59-65. | 1.8 | 22 |
| 48 | Three-dimensional exact analysis of piezoelectric laminated plates via a sampling surfaces method. <i>International Journal of Solids and Structures</i> , 2013, 50, 1916-1929. | 2.7 | 32 |
| 49 | A new approach to three-dimensional exact solutions for functionally graded piezoelectric laminated plates. <i>Composite Structures</i> , 2013, 106, 33-46. | 5.8 | 35 |
| 50 | A sampling surfaces method and its application to three-dimensional exact solutions for piezoelectric laminated shells. <i>International Journal of Solids and Structures</i> , 2013, 50, 1930-1943. | 2.7 | 22 |
| 51 | Advanced formulation for laminated composite shells: 3D stress analysis and rigid-body motions. <i>Composite Structures</i> , 2013, 95, 236-246. | 5.8 | 44 |
| 52 | Three-Dimensional Exact Analysis of Laminated Piezoelectric Plates and Shells. <i>Advanced Materials Research</i> , 2013, 745, 1-12. | 0.3 | 1 |
| 53 | On the use of sampling surfaces method for solution of 3D elasticity problems for thick shells. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2012, 92, 910-920. | 1.6 | 32 |
| 54 | Exact 3D stress analysis of laminated composite plates by sampling surfaces method. <i>Composite Structures</i> , 2012, 94, 3654-3663. | 5.8 | 56 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A method of solving three-dimensional problems of elasticity for laminated composite plates. <i>Mechanics of Composite Materials</i> , 2012, 48, 15-26. | 1.4 | 20 |
| 56 | Solution of static problems for a three-dimensional elastic shell. <i>Doklady Physics</i> , 2011, 56, 448-451. | 0.7 | 26 |
| 57 | Non-linear exact geometry 12-node solid-shell element with three translational degrees of freedom per node. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 88, 1363-1389. | 2.8 | 20 |
| 58 | Exact Geometry Piezoelectric Solid-Shell Element Based on the 7-Parameter Model. <i>Mechanics of Advanced Materials and Structures</i> , 2011, 18, 133-146. | 2.6 | 19 |
| 59 | On the Use of a New Concept of Sampling Surfaces in Shell Theory. <i>Advanced Structured Materials</i> , 2011, , 715-726. | 0.5 | 26 |
| 60 | Contact interaction of composite shells, subjected to follower loads, with a rigid convex foundation. <i>Mechanics of Composite Materials</i> , 2010, 46, 43-56. | 1.4 | 5 |
| 61 | Solution of a coupled problem of thermopiezoelectricity based on a geometrically exact shell element. <i>Mechanics of Composite Materials</i> , 2010, 46, 349-364. | 1.4 | 11 |
| 62 | A family of ANS four-node exact geometry shell elements in general convected curvilinear coordinates. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 83, 1376-1406. | 2.8 | 25 |
| 63 | Calculation of composite structures subjected to follower loads by using a geometrically exact shell element. <i>Mechanics of Composite Materials</i> , 2009, 45, 545-556. | 1.4 | 10 |
| 64 | Finite deformation higher-order shell models and rigid-body motions. <i>International Journal of Solids and Structures</i> , 2008, 45, 3153-3172. | 2.7 | 60 |
| 65 | Geometrically Exact Four-Node Piezoelectric Solid-Shell Element. <i>Mechanics of Advanced Materials and Structures</i> , 2008, 15, 199-207. | 2.6 | 17 |
| 66 | Non-linear strain-displacement equations exactly representing large rigid-body motions. Part III. Analysis of TM shells with constraints. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 1203-1215. | 6.6 | 3 |
| 67 | Non-linear geometrically exact assumed stress-strain four-node solid-shell element with high coarse-mesh accuracy. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 425-443. | 3.2 | 21 |
| 68 | Non-linear strain-displacement equations exactly representing large rigid-body motions. Part II. Enhanced finite element technique. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 2209-2230. | 6.6 | 21 |
| 69 | Geometrically exact assumed stress-strain multilayered solid-shell elements based on the 3D analytical integration. <i>Computers and Structures</i> , 2006, 84, 1275-1287. | 4.4 | 28 |
| 70 | Equivalent Single-Layer and Layerwise Shell Theories and Rigid-Body Motions—Part II: Computational Aspects. <i>Mechanics of Advanced Materials and Structures</i> , 2005, 12, 331-340. | 2.6 | 9 |
| 71 | Equivalent Single-Layer and Layerwise Shell Theories and Rigid-Body Motions—Part I: Foundations. <i>Mechanics of Advanced Materials and Structures</i> , 2005, 12, 275-283. | 2.6 | 25 |
| 72 | Contact Problem for a Pneumatic Tire Interacting with a Rigid Foundation. <i>Mechanics of Composite Materials</i> , 2004, 40, 427-436. | 1.4 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Finite deformation plate theory and large rigid-body motions. International Journal of Non-Linear Mechanics, 2004, 39, 1093-1109. | 2.6 | 9 |
| 74 | Non-conventional non-linear two-node hybrid stress-strain curved beam elements. Finite Elements in Analysis and Design, 2004, 40, 1333-1359. | 3.2 | 17 |
| 75 | The contact problem for a geometrically non-linear Timoshenko-type shell. Prikladnaya Matematika I Mekhanika, 2003, 67, 825-836. | 0.4 | 2 |
| 76 | Non-linear strain-displacement equations exactly representing large rigid-body motions. Part I Timoshenko-Mindlin shell theory. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 851-875. | 6.6 | 27 |
| 77 | Efficient mixed Timoshenko-Mindlin shell elements. International Journal for Numerical Methods in Engineering, 2002, 55, 1167-1183. | 2.8 | 8 |
| 78 | Simple and effective elements based upon Timoshenko-Mindlin shell theory. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 1173-1187. | 6.6 | 27 |
| 79 | The shear correction factor in the geometrically nonlinear theory of Timoshenko shells. Doklady Physics, 2002, 47, 145-147. | 0.7 | 1 |
| 80 | Title is missing!. Mechanics of Composite Materials, 2002, 38, 397-406. | 1.4 | 7 |
| 81 | Title is missing!. Mechanics of Composite Materials, 2002, 38, 539-546. | 1.4 | 8 |
| 82 | Non-linear analysis of multilayered shells under initial stress. International Journal of Non-Linear Mechanics, 2001, 36, 323-334. | 2.6 | 10 |
| 83 | Analysis of initially stressed multilayered shells. International Journal of Solids and Structures, 2001, 38, 4535-4555. | 2.7 | 20 |
| 84 | On the shear correction factor in the Timoshenko-type shell theory. Doklady Physics, 2001, 46, 797-799. | 0.7 | 0 |
| 85 | Refined Global Approximation Theory of Multilayered Plates and Shells. Journal of Engineering Mechanics - ASCE, 2001, 127, 119-125. | 2.9 | 58 |
| 86 | Comparative analysis of two algorithms for numerical solution of nonlinear static problems for multilayer anisotropic shells of revolution. 1. Account of transverse shear. Mechanics of Composite Materials, 1999, 35, 241-248. | 1.4 | 7 |
| 87 | Comparative analysis of two algorithms for numerical solution of nonlinear static problems for multilayered anisotropic shells of revolution 2. Account of transverse compression. Mechanics of Composite Materials, 1999, 35, 293-300. | 1.4 | 8 |
| 88 | Computational Models for Multilayered Composite Shells with Application to Tires. Tire Science and Technology, 1996, 24, 11-38. | 0.4 | 15 |
| 89 | Thermally forced loading of multilayered anisotropic shells. Mechanics of Composite Materials, 1993, 29, 143-152. | 1.4 | 0 |
| 90 | Nonaxisymmetric deformation of tangentially loaded multilayered anisotropic shells of revolution. Mechanics of Composite Materials, 1993, 28, 409-413. | 1.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Axisymmetric deformation of multilayered anisotropic shells of revolution subjected to tangential loads. <i>Mechanics of Composite Materials</i> , 1993, 28, 334-340. | 1.4 | 0 |
| 92 | Local loading of rubber-cord shells of revolution. <i>Mechanics of Composite Materials</i> , 1992, 27, 436-441. | 1.4 | 3 |
| 93 | Design of pneumatic tires on the basis of a generalized broken-line hypothesis. <i>Strength of Materials</i> , 1990, 22, 272-277. | 0.5 | 1 |
| 94 | Analytical method for solving nonlinear multilayer anisotropic plate theory problems. <i>Journal of Applied Mechanics and Technical Physics</i> , 1990, 31, 281-285. | 0.5 | 0 |
| 95 | Nonaxisymmetric stress-strain state of multilayer anisotropic shells of revolution. <i>Soviet Applied Mechanics</i> , 1990, 26, 1077-1080. | 0.0 | 0 |
| 96 | Mechanics of structures made of rubber and cord materials. <i>Mechanics of Composite Materials</i> , 1990, 25, 500-509. | 1.4 | 0 |
| 97 | Nonaxisymmetric loading of a prestressed multilayered reinforced shell. <i>Mechanics of Composite Materials</i> , 1990, 26, 254-258. | 1.4 | 5 |
| 98 | Generalized model of the mechanics of thin-walled structures made of composite materials. <i>Mechanics of Composite Materials</i> , 1989, 24, 537-543. | 1.4 | 7 |
| 99 | Comparative analysis of two approaches to more accurate calculation of laminate shells made of composite materials. <i>Mechanics of Composite Materials</i> , 1989, 24, 804-810. | 1.4 | 1 |
| 100 | Stressed-strained state of shells made of layered composites. <i>Journal of Applied Mechanics and Technical Physics</i> , 1989, 29, 745-750. | 0.5 | 0 |
| 101 | General direction of development of the theory of multilayered shells. <i>Mechanics of Composite Materials</i> , 1988, 24, 231-241. | 1.4 | 54 |
| 102 | Theory and numerical solution of problems of the statics of multilayered reinforced shells. <i>Mechanics of Composite Materials</i> , 1987, 22, 450-457. | 1.4 | 3 |
| 103 | Effect of shear-stress nonuniformity in modern tires. <i>Mechanics of Composite Materials</i> , 1987, 22, 607-613. | 1.4 | 1 |
| 104 | A variant of the nonlinear theory of elastic multiply flat shells. <i>Mechanics of Composite Materials</i> , 1986, 21, 587-594. | 1.4 | 0 |
| 105 | Influence of anisotropy on the stress state of multilayer reinforced shells. <i>Soviet Applied Mechanics</i> , 1986, 22, 1166-1170. | 0.0 | 9 |
| 106 | Stress-strain state of modern tires. <i>Mechanics of Composite Materials</i> , 1984, 20, 227-238. | 1.4 | 1 |
| 107 | Axisymmetric deformation of anisotropic multilayer shells of revolution of intricate shapes. <i>Mechanics of Composite Materials</i> , 1982, 17, 437-445. | 1.4 | 5 |
| 108 | Numerical solution of problems involving the statics of geometrically nonlinear anisotropic multilayer shells of revolution. <i>Mechanics of Composite Materials</i> , 1981, 17, 294-302. | 1.4 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Approximate analysis of nonlinear transversely isotropic triple-layer plates. Mechanics of Composite Materials, 1980, 16, 202-206. | 1.4 | 1 |
| 110 | Approximate analysis of anisotropic three-layered plates of finite deflection. Mechanics of Composite Materials, 1980, 16, 34-39. | 1.4 | 1 |