

Mohammad Rahim Hematiyan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1881509/publications.pdf>

Version: 2024-02-01

94
papers

1,487
citations

361296

20
h-index

377752

34
g-index

94
all docs

94
docs citations

94
times ranked

817
citing authors

#	ARTICLE	IF	CITATIONS
1	An adaptive integral terminal sliding mode controller to track the human upper limb during front crawl swimming. <i>European Journal of Sport Science</i> , 2023, 23, 499-509.	1.4	0
2	The Method of Fundamental Solutions for Two-Dimensional Elastostatic Problems with Stress Concentration and Highly Anisotropic Materials. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2022, 130, 1349-1369.	0.8	0
3	Efficient Modeling of Heat Conduction across Thin Surface Coatings on 3D Anisotropic Substrate. <i>Aerospace</i> , 2022, 9, 321.	1.1	1
4	Identification of Time Variations of Moving Loads Applied to Plates Resting on Viscoelastic Foundation Using a Meshfree Method. <i>Aerospace</i> , 2022, 9, 357.	1.1	0
5	Failure Procedure in Epoxy Adhesive Joining Composite Plates. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2021, 45, 337-350.	0.8	2
6	An inverse procedure for identification of loads applied to a fractured component using a meshfree method. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 1687-1705.	1.5	6
7	Analysis of transient uncoupled thermoelastic problems involving moving point heat sources using the method of fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2021, 123, 122-132.	2.0	6
8	Three-dimensional analysis of heat conduction in anisotropic composites with thin adhesive/interstitial media by the boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2021, 123, 36-47.	2.0	8
9	A modification of the method of fundamental solutions for solving 2D problems with concave and complicated domains. <i>Engineering Analysis With Boundary Elements</i> , 2021, 123, 168-181.	2.0	3
10	The identification of the unloaded configuration of breast tissue with unknown non-homogenous stiffness parameters using surface measured data in deformed configuration. <i>Computers in Biology and Medicine</i> , 2021, 128, 104107.	3.9	3
11	Mechanics Based Tomography (MBT): Validation using experimental data. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 146, 104187.	2.3	6
12	A comparative mechanical study of two types of femur bone implant using the finite element method. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3459.	1.0	10
13	The method of fundamental solutions for anisotropic thermoelastic problems. <i>Applied Mathematical Modelling</i> , 2021, 95, 200-218.	2.2	7
14	An efficient boundary-type meshfree method for analysis of two-dimensional laser heating problems. <i>Engineering Analysis With Boundary Elements</i> , 2021, 132, 460-468.	2.0	6
15	A practical meshfree inverse method for identification of thermo-mechanical fracture load of a body by examining the crack path in the body. <i>Engineering Analysis With Boundary Elements</i> , 2021, 133, 236-247.	2.0	10
16	A meshfree method with dynamic node reconfiguration for analysis of thermo-elastic problems with moving concentrated heat sources. <i>Applied Mathematical Modelling</i> , 2020, 79, 624-638.	2.2	11
17	Load identification for a viscoelastic solid by an accurate meshfree sensitivity analysis. <i>Engineering Structures</i> , 2020, 203, 109895.	2.6	17
18	An inverse meshfree thermoelastic analysis for identification of temperature-dependent thermal and mechanical material properties. <i>Journal of Thermal Stresses</i> , 2020, 43, 1165-1188.	1.1	6

#	ARTICLE	IF	CITATIONS
19	A novel method for the identification of the unloaded configuration of a deformed hyperelastic body. <i>Inverse Problems in Science and Engineering</i> , 2020, 28, 1493-1512.	1.2	4
20	Inflation, extension and torsion analysis of compressible functionally graded hyperelastic tubes. <i>Acta Mechanica</i> , 2020, 231, 3947-3960.	1.1	5
21	Two-dimensional elastodynamic and free vibration analysis by the method of fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2020, 117, 188-201.	2.0	9
22	Efficient 2D Analysis Of Interfacial Thermoelastic Stresses in Multiply Bonded Anisotropic Composites With Thin Adhesives. <i>Computers, Materials and Continua</i> , 2020, 64, 701-727.	1.5	4
23	A robust meshfree method for analysis of cohesive crack propagation problems. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 104, 102328.	2.1	14
24	A strong-form meshfree method for stress analysis of hyperelastic materials. <i>Engineering Analysis With Boundary Elements</i> , 2019, 109, 32-42.	2.0	17
25	Identification of hyper-viscoelastic material parameters of a soft member connected to another unidentified member by applying a dynamic load. <i>International Journal of Solids and Structures</i> , 2019, 165, 50-62.	1.3	15
26	An inverse meshfree method for heat flux identification based on strain measurement. <i>International Journal of Thermal Sciences</i> , 2019, 144, 50-66.	2.6	9
27	An improved time domain meshfree method for analysis of quasi-static and dynamic inhomogeneous viscoelastic problems. <i>Engineering Analysis With Boundary Elements</i> , 2019, 106, 59-67.	2.0	10
28	Thermal Stress Analysis of 3D Anisotropic Materials Involving Domain Heat Source by the Boundary Element Method. <i>Journal of Mechanics</i> , 2019, 35, 839-850.	0.7	2
29	Enhanced meshfree method with new correlation functions for functionally graded plates using a refined inverse sin shear deformation plate theory. <i>European Journal of Mechanics, A/Solids</i> , 2019, 74, 160-175.	2.1	23
30	Load identification for viscoplastic materials with some unknown material parameters. <i>International Journal of Mechanical Sciences</i> , 2019, 153-154, 164-177.	3.6	15
31	Some Remarks on the Method of Fundamental Solutions for Two-Dimensional Elasticity. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2019, 121, 661-686.	0.8	3
32	A parametric study of the MLPG method for thermo-mechanical solidification analysis. <i>Engineering Analysis With Boundary Elements</i> , 2018, 89, 10-24.	2.0	16
33	A new refined simple TSDT-based effective meshfree method for analysis of through-thickness FG plates. <i>Applied Mathematical Modelling</i> , 2018, 57, 514-534.	2.2	46
34	Identification of Material Parameters of a Hyper-Elastic Body With Unknown Boundary Conditions. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	1.1	12
35	An efficient load identification for viscoplastic materials by an inverse meshfree analysis. <i>International Journal of Mechanical Sciences</i> , 2018, 136, 303-312.	3.6	9
36	A comparative study of two constitutive models within an inverse approach to determine the spatial stiffness distribution in soft materials. <i>International Journal of Mechanical Sciences</i> , 2018, 140, 446-454.	3.6	24

#	ARTICLE	IF	CITATIONS
37	Investigating the effects of mushy zone thickness on residual stresses in alloy solidification. <i>Meccanica</i> , 2018, 53, 905-922.	1.2	3
38	Investigating the effects of cooling rate and casting speed on continuous casting process using a 3D thermo-mechanical meshless approach. <i>Acta Mechanica</i> , 2018, 229, 4375-4392.	1.1	9
39	Direct transformation of the volume integral in the boundary integral equation for treating three-dimensional steady-state anisotropic thermoelasticity involving volume heat source. <i>International Journal of Solids and Structures</i> , 2018, 143, 287-297.	1.3	1
40	Interlaminar Stresses Analysis of Three-Dimensional Composite Laminates by the Boundary Element Method. <i>Journal of Mechanics</i> , 2018, 34, 829-837.	0.7	2
41	Optimization of H-shaped thin-walled energy absorber by Taguchi method and a new theoretical estimation for its energy absorption. <i>Thin-Walled Structures</i> , 2018, 131, 33-44.	2.7	15
42	Inverse Determination of Time-Dependent Loads in Viscoplastic Deformations Using Strain Measurements in the Deformed Configuration. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850057.	1.3	4
43	Inverse determination of elastic constants of a hyper-elastic member with inclusions using simple displacement/length measurements. <i>Journal of Strain Analysis for Engineering Design</i> , 2018, 53, 529-542.	1.0	7
44	Three-dimensional thermo-mechanical analysis of continuous casting and comparison with two-dimensional models. <i>Journal of Strain Analysis for Engineering Design</i> , 2018, 53, 421-434.	1.0	1
45	A Two-Constraint Method for Appropriate Determination of the Configuration of Source and Collocation Points in the Method of Fundamental Solutions for 2D Laplace Equation. <i>Advances in Applied Mathematics and Mechanics</i> , 2018, 10, 554-580.	0.7	11
46	Torsional analysis of hollow members with sandwich wall. <i>Journal of Sandwich Structures and Materials</i> , 2017, 19, 317-347.	2.0	2
47	A simple FSDT-based meshfree method for analysis of functionally graded plates. <i>Engineering Analysis With Boundary Elements</i> , 2017, 79, 1-12.	2.0	87
48	Meshfree radial point interpolation method for analysis of viscoplastic problems. <i>Engineering Analysis With Boundary Elements</i> , 2017, 82, 172-184.	2.0	23
49	Accurate and efficient analysis of stationary and propagating crack problems by meshless methods. <i>Theoretical and Applied Fracture Mechanics</i> , 2017, 87, 21-34.	2.1	73
50	A new stable inverse method for identification of the elastic constants of a three-dimensional generally anisotropic solid. <i>International Journal of Solids and Structures</i> , 2017, 106-107, 240-250.	1.3	28
51	Boundary element analysis of 2D and 3D thermoelastic problems containing curved line heat sources. <i>European Journal of Computational Mechanics</i> , 2016, 25, 147-164.	0.6	3
52	Three-dimensional thermo-elastoplastic analysis of thick functionally graded plates using the meshless local Petrov-Galerkin method. <i>Engineering Analysis With Boundary Elements</i> , 2016, 71, 34-49.	2.0	46
53	Non-uniform torsion of open-section members considering cross-sectional curvatures. <i>Journal of Strain Analysis for Engineering Design</i> , 2016, 51, 444-458.	1.0	1
54	Calculation of dose distribution in compressible breast tissues using finite element modeling, Monte Carlo simulation and thermoluminescence dosimeters. <i>Physics in Medicine and Biology</i> , 2015, 60, 9185-9202.	1.6	8

#	ARTICLE	IF	CITATIONS
55	A novel inverse method for identification of 3D thermal conductivity coefficients of anisotropic media by the boundary element analysis. International Journal of Heat and Mass Transfer, 2015, 89, 685-693.	2.5	34
56	OPTIMUM ARRANGEMENT OF LAYERS IN MULTI-LAYER COMPOUND CYLINDERS. International Journal of Applied Mechanics, 2014, 06, 1450057.	1.3	3
57	TORSIONAL ANALYSIS OF PIEZOELECTRIC HOLLOW BARS. International Journal of Applied Mechanics, 2014, 06, 1450019.	1.3	13
58	INVERSE RECONSTRUCTION OF THERMAL AND MECHANICAL BOUNDARY CONDITIONS IN COUPLED NONLINEAR THERMO-ELASTIC PROBLEMS. International Journal of Applied Mechanics, 2014, 06, 1450014.	1.3	6
59	Material tailoring in functionally graded rods under torsion. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 3283-3295.	1.1	3
60	A background decomposition method for domain integration in weak-form meshfree methods. Computers and Structures, 2014, 142, 64-78.	2.4	34
61	Dynamic analysis of sandwich beams with functionally graded core using a truly meshfree radial point interpolation method. Engineering Structures, 2013, 47, 90-104.	2.6	148
62	Efficient evaluation of weakly/strongly singular domain integrals in the BEM using a singular nodal integration method. Engineering Analysis With Boundary Elements, 2013, 37, 691-698.	2.0	37
63	Simultaneous control of solidus and liquidus lines in alloy solidification. Engineering Analysis With Boundary Elements, 2013, 37, 211-224.	2.0	12
64	A domain decomposition method for the stable analysis of inverse nonlinear transient heat conduction problems. International Journal of Heat and Mass Transfer, 2013, 58, 125-134.	2.5	39
65	Closed-form formulation for torsional analysis of beams with open or closed cross sections having a crack. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Aerospace Engineering, 2013, 227, 1953-1967.	0.7	3
66	Determination of optimum cooling conditions for continuous casting by a meshless method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 1022-1035.	1.1	5
67	Regularization of the Boundary Integrals in the Bem Analysis of 3D Potential Problems. Journal of Mechanics, 2013, 29, 385-401.	0.7	7
68	A New Analytical Solution for Optimum Design of Shrink-Fit Multi-Layer Compound Cylinders. , 2012, , .		0
69	A GENERAL TECHNIQUE FOR COUPLING TWO ARBITRARY METHODS IN STRESS ANALYSIS. International Journal of Computational Methods, 2012, 09, 1240027.	0.8	1
70	AN ANALYTICAL SOLUTION FOR OPTIMUM DESIGN OF SHRINK-FIT MULTI-LAYER COMPOUND CYLINDERS. International Journal of Applied Mechanics, 2012, 04, 1250043.	1.3	10
71	TORSION OF FUNCTIONALLY GRADED OPEN-SECTION MEMBERS. International Journal of Applied Mechanics, 2012, 04, 1250020.	1.3	9
72	Crack detection in beam-like structures using a wavelet-based neural network. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2012, 226, 1243-1254.	0.7	15

#	ARTICLE	IF	CITATIONS
73	Autoclaving and clinical recycling: Effects on mechanical properties of orthodontic wires. Indian Journal of Dental Research, 2012, 23, 638.	0.1	12
74	Saint-Venant Torsion of Open-Section Members of Uniform Thickness. Journal of Strain Analysis for Engineering Design, 2011, 46, 56-66.	1.0	3
75	Boundary element analysis of uncoupled transient thermo-elastic problems with time- and space-dependent heat sources. Applied Mathematics and Computation, 2011, 218, 1862-1882.	1.4	31
76	Nonlinear transient heat conduction analysis of functionally graded materials in the presence of heat sources using an improved meshless radial point interpolation method. Applied Mathematical Modelling, 2011, 35, 4157-4174.	2.2	81
77	Identification of unknown vibrating pressures in a three-chamber unit using a Computational Inverse Acoustics Method. , 2011, , .		0
78	A two-stage inverse method for the evaluation of volume fraction distributions in 2D and 3D functionally graded materials. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 1550-1564.	1.1	6
79	Boundary element analysis of two- and three-dimensional thermo-elastic problems with various concentrated heat sources. Journal of Strain Analysis for Engineering Design, 2011, 46, 227-242.	1.0	12
80	Adaptive Backstepping Stabilization of Uncertain Switched Nonlinear Systems in Parametric Strict-Feedback Form. , 2010, , .		1
81	A Method for Thermal Loading Design to Reduce Stresses. , 2010, , .		2
82	A new method for meshless integration in 2D and 3D Galerkin meshfree methods. Engineering Analysis With Boundary Elements, 2010, 34, 30-40.	2.0	69
83	Boundary element analysis of nonlinear transient heat conduction problems involving non-homogenous and nonlinear heat sources using time-dependent fundamental solutions. Engineering Analysis With Boundary Elements, 2010, 34, 655-665.	2.0	37
84	Boundary element analysis of thermo-elastic problems with non-uniform heat sources. Journal of Strain Analysis for Engineering Design, 2010, 45, 605-627.	1.0	10
85	Boundary element analysis of thermo-elastic problems with non-uniform heat sources. Journal of Strain Analysis for Engineering Design, 2010, 45, 605-627.	1.0	1
86	Closed-Form Approximate Formulas for Torsional Analysis of Hollow Tubes with Straight and Circular Edges. Journal of Mechanics, 2009, 25, 401-409.	0.7	10
87	Torsion of functionally graded hollow tubes. European Journal of Mechanics, A/Solids, 2009, 28, 551-559.	2.1	38
88	An Efficient Inverse Method for Identification of the Location and Time History of an Elastic Impact Load. Journal of Testing and Evaluation, 2009, 37, 545-555.	0.4	2
89	Exact transformation of a wide variety of domain integrals into boundary integrals in boundary element method. Communications in Numerical Methods in Engineering, 2008, 24, 1497-1521.	1.3	29
90	A General Method for Evaluation of 2D and 3D Domain Integrals Without Domain Discretization and its Application in BEM. Computational Mechanics, 2007, 39, 509-520.	2.2	62

#	ARTICLE	IF	CITATIONS
91	Torsion of moderately thick hollow tubes with polygonal shapes. Mechanics Research Communications, 2007, 34, 528-537.	1.0	10
92	A boundary elements pseudo heat source method formulation for inverse analysis of solidification problems. Computational Mechanics, 2003, 31, 262-271.	2.2	10
93	A boundary element method of inverse non-linear heat conduction analysis with point and line heat sources. Communications in Numerical Methods in Engineering, 2000, 16, 191-203.	1.3	16
94	Vibrating Loads Identification Using Inverse Acoustics in Fluid-Structure Interaction. Advanced Materials Research, 0, 433-440, 51-57.	0.3	3