

Amares Chattopadhyay

List of Publications by Year in descending order

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88
papers

1,041
citations

471509

17
h-index

610901

24
g-index

88
all docs

88
docs citations

88
times ranked

232
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagation of magnetoelastic shear waves in an irregular self-reinforced layer. <i>Journal of Engineering Mathematics</i> , 2012, 75, 139-155.	1.2	56
2	Dispersion of horizontally polarized shear waves in an irregular non-homogeneous self-reinforced crustal layer over a semi-infinite self-reinforced medium. <i>JVC/Journal of Vibration and Control</i> , 2013, 19, 109-119.	2.6	46
3	Effect of point source and heterogeneity on the propagation of SH-Waves in a viscoelastic layer over a viscoelastic half space. <i>Acta Geophysica</i> , 2012, 60, 119-139.	2.0	43
4	Propagation of shear waves in viscoelastic medium at irregular boundaries. <i>Acta Geophysica</i> , 2010, 58, 195-214.	2.0	42
5	Reflection in a highly anisotropic medium for three-dimensional plane waves under initial stresses. <i>International Journal of Engineering Science</i> , 2014, 85, 136-149.	5.0	37
6	Propagation of a crack due to magnetoelastic shear waves in a self-reinforced medium. <i>JVC/Journal of Vibration and Control</i> , 2014, 20, 406-420.	2.6	29
7	Love-type wave propagation in a piezoelectric structure with irregularity. <i>International Journal of Engineering Science</i> , 2015, 89, 35-60.	5.0	27
8	Effect of initial stress, heterogeneity and anisotropy on the propagation of seismic surface waves. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 177-188.	2.6	27
9	Reflection for three-dimensional plane waves in triclinic crystalline medium. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2007, 28, 1309-1318.	3.6	24
10	A model for spherical SH wave propagation in self-reinforced linearly elastic media. <i>Archive of Applied Mechanics</i> , 2006, 75, 113-124.	2.2	22
11	Influence of corrugated boundary surfaces, reinforcement, hydrostatic stress, heterogeneity and anisotropy on Love-type wave propagation. <i>Meccanica</i> , 2015, 50, 2977-2994.	2.0	22
12	Reflection and transmission of plane wave through fluid layer of finite width sandwiched between two monoclinic elastic half-spaces. <i>Acta Mechanica</i> , 2016, 227, 3687-3701.	2.1	22
13	Effect of irregularity and heterogeneity on the stresses produced due to a normal moving load on a rough monoclinic half-space. <i>Meccanica</i> , 2014, 49, 2861-2878.	2.0	21
14	Reflection and Refraction for Three-Dimensional Plane Waves at the Interface between Distinct Anisotropic Half-Spaces under Initial Stresses. <i>International Journal of Geomechanics</i> , 2016, 16, .	2.7	21
15	Effect of interfacial imperfection on shear wave propagation in a piezoelectric composite structure: Wentzelâ€“Kramersâ€“Brillouin asymptotic approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 2789-2807.	2.5	21
16	Dispersion of shear wave propagating in vertically heterogeneous double layers overlying an initially stressed isotropic half-space. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 69, 16-27.	3.8	20
17	Reflection and refraction of plane waves at the loosely bonded common interface of piezoelectric fibre-reinforced and fibre-reinforced composite media. <i>Ultrasonics</i> , 2019, 94, 131-144.	3.9	20
18	Propagation of torsional wave in a composite layer overlying an anisotropic heterogeneous half-space with initial stress. <i>JVC/Journal of Vibration and Control</i> , 2015, 21, 1987-1998.	2.6	19

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19	Seismic Waves in Heterogeneous Crust-Mantle Layers under Initial Stresses. <i>Journal of Earthquake Engineering</i> , 2016, 20, 39-61.	2.5	18
20	Torsional wave in an initially stressed layer lying between two inhomogeneous media. <i>Meccanica</i> , 2015, 50, 1775-1789.	2.0	16
21	Quasi-P and quasi-S waves in a self-reinforced medium under initial stresses and under gravity. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 3965-3985.	2.6	16
22	Propagation of shear waves in homogeneous and inhomogeneous fibre-reinforced media on a cylindrical Earth model. <i>Applied Mathematical Modelling</i> , 2017, 52, 493-511.	4.2	16
23	Love-type waves in a piezoelectric-viscoelastic bimaterial composite structure due to an impulsive point source. <i>International Journal of Mechanical Sciences</i> , 2019, 152, 613-629.	6.7	16
24	Effect of smooth moving punch in an initially stressed monoclinic magnetoelastic crystalline medium due to shear wave propagation. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 2719-2730.	2.6	15
25	Influence of Heterogeneity on the Propagation Behavior of Love-Type Waves in a Layered Isotropic Structure. <i>International Journal of Geomechanics</i> , 2016, 16, .	2.7	14
26	Reflection and transmission of plane waves through isotropic medium sandwiched between two highly anisotropic half-spaces. <i>Waves in Random and Complex Media</i> , 2016, 26, 42-67.	2.7	14
27	Stresses Induced by a Moving Load in a Composite Structure with an Incompressible Poroviscoelastic Layer. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, 04019062.	2.9	14
28	Green's function technique to study the influence of heterogeneity on horizontally polarised shear-wave propagation due to a line source in composite layered structure. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 701-712.	2.6	14
29	Dynamic response of normal moving load on an irregular fiber-reinforced half-space. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 77-88.	2.6	13
30	Green's function approach to study the propagation of SH-wave in piezoelectric layer influenced by a point source. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 4771.	2.3	13
31	Remarks on impact of irregularity on SH-type wave propagation in micropolar elastic composite structure. <i>International Journal of Mechanical Sciences</i> , 2018, 135, 325-341.	6.7	13
32	On point source influencing Love-type wave propagation in a functionally graded piezoelectric composite structure: A Green's function approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1928-1940.	2.5	12
33	Reflection of Three-Dimensional Plane Waves in a Self-Reinforced Medium under Initial Stresses. <i>Journal of Engineering Mechanics - ASCE</i> , 2016, 142, .	2.9	11
34	Wave propagation in heterogeneous layers of the Earth. <i>Waves in Random and Complex Media</i> , 2016, 26, 626-641.	2.7	11
35	Dynamic response of an irregular heterogeneous anisotropic poroelastic composite structure due to normal moving load. <i>Acta Mechanica</i> , 2020, 231, 2303-2321.	2.1	11
36	Analytical study on stress intensity factor due to the propagation of Griffith crack in a crystalline monoclinic layer subjected to punch pressure. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 475-487.	3.4	11

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37	Smooth moving punch in an initially stressed transversely isotropic magnetoelastic medium due to shear wave. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 774-783.	2.6	10
38	Study of Love-type wave propagation in an isotropic tri layers elastic medium overlying a semi-infinite elastic medium structure. <i>Waves in Random and Complex Media</i> , 2018, 28, 643-669.	2.7	10
39	Analysis on propagation characteristics of the shear wave in a triple layered concentric infinite long cylindrical structure: An analytical approach. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	10
40	Influence of an impulsive source on shear wave propagation in a mounted porous layer over a foundation with dry sandy elastic stratum and functionally graded substrate under initial stress. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 142, 106536.	3.8	10
41	Effect of Corrugation and Reinforcement on the Dispersion of SH-wave Propagation in Corrugated Poroelastic Layer Lying over a Fibre-reinforced Half-space. <i>Acta Geophysica</i> , 2016, 64, 1340-1369.	2.0	9
42	Propagation of crack in a pre-stressed inhomogeneous poroelastic medium influenced by shear wave. <i>Engineering Fracture Mechanics</i> , 2016, 154, 191-206.	4.3	9
43	Rayleigh waves in liquid layer resting over an initially stressed orthotropic half-space under self-weight. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	1.3	9
44	Duality in fuzzy multi objective linear programming problem with multi constraint. <i>International Journal of Mathematics in Operational Research</i> , 2014, 6, 297.	0.2	8
45	Love-Type Wave Propagation in an Irregular Prestressed Composite Sandwiched Layer. <i>International Journal of Geomechanics</i> , 2016, 16, 04015060.	2.7	8
46	Propagation of Torsional Waves in a Fiber Composite Layer Lying over an Initially Stressed Viscoelastic Half-Space. <i>International Journal of Geomechanics</i> , 2016, 16, 04015014.	2.7	8
47	Magnetoelastic shear wave propagation in pre-stressed anisotropic media under gravity. <i>Acta Geophysica</i> , 2017, 65, 189-205.	2.0	8
48	Mathematical study on the reflection and refraction phenomena of three-dimensional plane waves in a structure with floating frozen layer. <i>Applied Mathematics and Computation</i> , 2020, 386, 125488.	2.2	8
49	On the characteristics of shear acoustic waves propagating in an imperfectly bonded functionally graded piezoelectric layer over a piezoelectric cylinder. <i>Journal of Engineering Mathematics</i> , 2020, 120, 67-88.	1.2	8
50	Influence of initial stress, irregularity and heterogeneity on Love-type wave propagation in double pre-stressed irregular layers lying over a pre-stressed half-space. <i>Journal of Earth System Science</i> , 2015, 124, 1457-1474.	1.3	7
51	Response of moving load due to irregularity in slightly compressible, finitely deformed elastic media. <i>Mechanics Research Communications</i> , 2015, 66, 49-59.	1.8	7
52	Influence of corrugated boundary surface and reinforcement of fibre-reinforced layer on propagation of torsional surface wave. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 1417-1436.	2.6	7
53	Mathematical model for Rayleigh-type and Love-type wave propagation in pre-stressed composite medium with sinusoidal type of curved boundaries. <i>Applied Mathematical Modelling</i> , 2018, 56, 105-122.	4.2	7
54	Propagation of Love-type wave in functionally graded pre-stressed magneto-visco-elastic fiber-reinforced composite structure. <i>Waves in Random and Complex Media</i> , 2021, 31, 942-971.	2.7	7

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55	On propagation behavior of SH-wave and Rayleigh-type wave in an initially stressed exponentially graded fiber-reinforced viscoelastic layered structure. <i>Waves in Random and Complex Media</i> , 2021, 31, 486-514.	2.7	7
56	Analysis of reflection and refraction of plane wave at the separating interface of two functionally graded incompressible monoclinic media under initial stress and gravity. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	7
57	Effect of Internal Friction and the Lamé Ratio on Stoneley Wave Propagation in Viscoelastic Media of Order 1. <i>International Journal of Geomechanics</i> , 2016, 16, 04015090.	2.7	6
58	Effect of moving load due to irregularity in ice sheet floating on water. <i>Acta Mechanica</i> , 2017, 228, 1749-1765.	2.1	6
59	Shear wave in a pre-stressed poroelastic medium diffracted by a rigid strip. <i>Journal of Sound and Vibration</i> , 2017, 407, 16-31.	3.9	6
60	Effects of Anisotropy, Initial Stress, Heterogeneity, and Gravity on Torsional Wave Propagation. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	6
61	Reflection and Transmission of P-Waves in an Intermediate Layer Lying Between Two Semi-infinite Media. <i>Pure and Applied Geophysics</i> , 2018, 175, 4305-4319.	1.9	6
62	Analysis on the propagation of Griffith crack in a magnetoelastic self-reinforced strip subjected to moving punch of constant load. <i>Archive of Applied Mechanics</i> , 2021, 91, 791-808.	2.2	6
63	Reflection and transmission of thermoelastic waves at the corrugated interface of crystalline structure. <i>Journal of Thermal Stresses</i> , 2021, 44, 469-512.	2.0	6
64	Green's function analysis of shear wave propagation in heterogeneous poroelastic sandwiched layer influenced by an impulsive source. <i>Wave Motion</i> , 2021, 107, 102821.	2.0	6
65	Propagation of surface wave in a fluid layer overlying a slightly compressible, finitely deformed elastic medium. <i>JVC/Journal of Vibration and Control</i> , 2015, 21, 2697-2704.	2.6	5
66	The plane waves at the edge of a uniformly pre-stressed fiber-reinforced plate. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 2530-2541.	2.6	5
67	Impact of inhomogeneous fiber-reinforced layer with frictional interface on Rayleigh-type wave propagation. <i>Journal of Engineering Mathematics</i> , 2019, 114, 159-176.	1.2	5
68	Rayleigh-type wave propagation on a transversely isotropic viscoelastic layer with yielding and rigid foundations. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 107-118.	2.6	5
69	Two-Dimensional Plane Wave Reflection and Transmission in a Layered Highly Anisotropic Media under Initial Stress. <i>Journal of Earthquake Engineering</i> , 2020, 24, 1867-1885.	2.5	5
70	Effect of Heterogeneity, Irregularity, and Reinforcement on the Stress Produced by a Moving Load on a Self-Reinforced Composite Half-Space. <i>International Journal of Geomechanics</i> , 2016, 16, 04015066.	2.7	4
71	Shear Wave Propagation Due to a Point Source. <i>Procedia Engineering</i> , 2017, 173, 1544-1551.	1.2	4
72	Propagation characteristics of transverse surface wave in a heterogeneous layer clad with a piezoelectric stratum and an isotropic substrate. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 636-652.	2.5	4

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73	Shear wave propagation in a slightly compressible finitely deformed layer over a foundation with pre-stressed fibre-reinforced stratum and dry sandy viscoelastic substrate. <i>Waves in Random and Complex Media</i> , 2021, 31, 847-866.	2.7	4
74	Mathematical study on reflection and transmission of plane waves in a rotating piezo-thermo-elastic composite structure. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 2941-2952.	2.6	4
75	Analysis of reflection and transmission of three dimensional plane wave in an intermediate fluid layer embedded between two viscoelastic anisotropic semi-infinite media. <i>International Journal of Mechanical Sciences</i> , 2020, 170, 105007.	6.7	3
76	Influence of doubly loaded elastic void pores and distinct inhomogeneity in the sandwiched layered composite structure. <i>Waves in Random and Complex Media</i> , 2020, , 1-18.	2.7	3
77	Analysis of propagation characteristics of a shear wave in a frictionally bonded fibre-reinforced stratum. <i>Acta Mechanica</i> , 2018, 229, 4229-4238.	2.1	2
78	Numerical modelling of SH-wave propagation in initially-stressed multilayered composite structures. <i>Engineering Computations</i> , 2019, 36, 271-306.	1.4	2
79	Impact of curved boundary on the propagation characteristics of Rayleigh-type wave and SH-wave in a prestressed monoclinic media. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1274-1287.	2.6	2
80	Study on propagation characteristics of SH-wave in an imperfectly bonded functionally graded structure with viscoelastic stratum and fibre-reinforced substrate. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	2
81	Effects of linear and exponential heterogeneity on the dynamic response of a moving load in an irregular isotropic half-space: a comparative study. <i>Geomechanics and Geoengineering</i> , 2016, 11, 201-218.	1.8	1
82	Shear Wave Propagation in a Cylindrical Earth Model. <i>Procedia Engineering</i> , 2017, 173, 1959-1966.	1.2	1
83	Influence of distinct type of imperfect interfaces on reflection and transmission phenomena of triclinic thermoelastic structure. <i>Journal of Thermal Stresses</i> , 2021, 44, 1096-1120.	2.0	1
84	Comment on "æœcalculation of reflection and transmission coefficients for qP waves incident on a planar interface between isotropic and triclinic media" by L. Li. <i>Acta Geophysica</i> , 2008, 56, 1202-1204.	2.0	0
85	Effect of Gravity and Magnetism on Surface Wave Propagation in Heterogeneous Earth Crust. <i>Procedia Engineering</i> , 2016, 144, 1195-1204.	1.2	0
86	Propagation of Rayleigh-type wave in an initially stressed heterogeneous crustal layer resting on rigid surface. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
87	Wave analysis at frictional interface: A case wise study. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	0
88	Dispersion of Rayleigh-Type Wave in an Exponentially Graded Incompressible Crustal Layer Resting on Yielding Foundation. <i>Journal of Theoretical and Computational Acoustics</i> , 2019, 27, 1850038.	1.1	0