Amares Chattopadhyay

List of Publications by Year
in descending order

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	Mathematical study on reflection and transmission of plane waves in a rotating piezo-thermo-elastic composite structure. Mechanics of Advanced Materials and Structures, 2023, 30, 2941-2952.	2.6	4
2	Propagation of Love-type wave in functionally graded pre-stressed magneto-visco-elastic fiber-reinforced composite structure. Waves in Random and Complex Media, 2021, 31, 942-971.	2.7	7
3	Shear wave propagation in a slightly compressible finitely deformed layer over a foundation with pre-stressed fibre-reinforced stratum and dry sandy viscoelastic substrate. Waves in Random and Complex Media, 2021, 31, 847-866.	2.7	4
4	On propagation behavior of SH-wave and Rayleigh-type wave in an initially stressed exponentially graded fiber-reinforced viscoelastic layered structure. Waves in Random and Complex Media, 2021, 31, 486-514.	2.7	7
5	Analysis on the propagation of Griffith crack in a magnetoelastic self-reinforced strip subjected to moving punch of constant load. Archive of Applied Mechanics, 2021, 91, 791-808.	2.2	6
6	Analytical study on stress intensity factor due to the propagation of Griffith crack in a crystalline monoclinic layer subjected to punch pressure. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 475-487.	3.4	11
7	Impact of curved boundary on the propagation characteristics of Rayleigh-type wave and SH-wave in a prestressed monoclinic media. Mechanics of Advanced Materials and Structures, 2021, 28, 1274-1287.	2.6	2
8	Reflection and transmission of thermoelastic waves at the corrugated interface of crystalline structure. Journal of Thermal Stresses, 2021, 44, 469-512.	2.0	6
9	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. Soil Dynamics and Earthquake Engineering, 2021, 142, 106536.	3.8	10
10	Study on propagation characteristics of SH-wave in an imperfectly bonded functionally graded structure with viscoelastic stratum and fibre-reinforced substrate. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	2
11	Influence of distinct type of imperfect interfaces on reflection and transmission phenomena of triclinic thermoelastic structure. Journal of Thermal Stresses, 2021, 44, 1096-1120.	2.0	1
12	Greenâ€™s function analysis of shear wave propagation in heterogeneous poroelastic sandwiched layer influenced by an impulsive source. Wave Motion, 2021, 107, 102821.	2.0	6
13	Two-Dimensional Plane Wave Reflection and Transmission in a Layered Highly Anisotropic Media under Initial Stress. Journal of Earthquake Engineering, 2020, 24, 1867-1885.	2.5	5
14	Effect of initial stress, heterogeneity and anisotropy on the propagation of seismic surface waves. Mechanics of Advanced Materials and Structures, 2020, 27, 177-188.	2.6	27
15	Analysis of reflection and transmission of three dimensional plane wave in an intermediate fluid layer embedded between two viscoelastic anisotropic semi-infinite media. International Journal of Mechanical Sciences, 2020, 170, 105007.	6.7	3
16	Greenâ€™s function technique to study the influence of heterogeneity on horizontally polarised shear-wave propagation due to a line source in composite layered structure. JVC/Journal of Vibration and Control, 2020, 26, 701-712.	2.6	14
17	Influence of doubly loaded elastic void pores and distinct inhomogeneity in the sandwiched layered composite structure. Waves in Random and Complex Media, 2020, , 1-18.	2.7	3
18	Mathematical study on the reflection and refraction phenomena of three-dimensional plane waves in a structure with floating frozen layer. Applied Mathematics and Computation, 2020, 386, 125488.	2.2	8

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19	On the characteristics of shear acoustic waves propagating in an imperfectly bonded functionally graded piezoelectric layer over a piezoelectric cylinder. Journal of Engineering Mathematics, 2020, 120, 67-88.	1.2	8
20	Dynamic response of an irregular heterogeneous anisotropic poroelastic composite structure due to normal moving load. Acta Mechanica, 2020, 231, 2303-2321.	2.1	11
21	Analysis of reflection and refraction of plane wave at the separating interface of two functionally graded incompressible monoclinic media under initial stress and gravity. European Physical Journal Plus, 2020, 135, 1.	2.6	7
22	Dispersion of Rayleigh-Type Wave in an Exponentially Graded Incompressible Crustal Layer Resting on Yielding Foundation. Journal of Theoretical and Computational Acoustics, 2019, 27, 1850038.	1.1	0
23	Effect of interfacial imperfection on shear wave propagation in a piezoelectric composite structure: Wentzelâ€“Kramersâ€“Brillouin asymptotic approach. Journal of Intelligent Material Systems and Structures, 2019, 30, 2789-2807.	2.5	21
24	Analysis on propagation characteristics of the shear wave in a triple layered concentric infinite long cylindrical structure: An analytical approach. European Physical Journal Plus, 2019, 134, 1.	2.6	10
25	Stresses Induced by a Moving Load in a Composite Structure with an Incompressible Poroviscoelastic Layer. Journal of Engineering Mechanics - ASCE, 2019, 145, 04019062.	2.9	14
26	Impact of inhomogeneous fiber-reinforced layer with frictional interface on Rayleigh-type wave propagation. Journal of Engineering Mathematics, 2019, 114, 159-176.	1.2	5
27	Numerical modelling of SH-wave propagation in initially-stressed multilayered composite structures. Engineering Computations, 2019, 36, 271-306.	1.4	2
28	Reflection and refraction of plane waves at the loosely bonded common interface of piezoelectric fibre-reinforced and fibre-reinforced composite media. Ultrasonics, 2019, 94, 131-144.	3.9	20
29	Love-type waves in a piezoelectric-viscoelastic bimaterial composite structure due to an impulsive point source. International Journal of Mechanical Sciences, 2019, 152, 613-629.	6.7	16
30	Rayleigh-type wave propagation on a transversely isotropic viscoelastic layer with yielding and rigid foundations. Mechanics of Advanced Materials and Structures, 2019, 26, 107-118.	2.6	5
31	On point source influencing Love-type wave propagation in a functionally graded piezoelectric composite structure: A Greenâ€™s function approach. Journal of Intelligent Material Systems and Structures, 2018, 29, 1928-1940.	2.5	12
32	Wave analysis at frictional interface: A case wise study. European Physical Journal Plus, 2018, 133, 1.	2.6	0
33	Study of Love-type wave propagation in an isotropic tri layers elastic medium overlying a semi-infinite elastic medium structure. Waves in Random and Complex Media, 2018, 28, 643-669.	2.7	10
34	Remarks on impact of irregularity on SH-type wave propagation in micropolar elastic composite structure. International Journal of Mechanical Sciences, 2018, 135, 325-341.	6.7	13
35	Mathematical model for Rayleigh-type and Love-type wave propagation in pre-stressed composite medium with sinusoidal type of curved boundaries. Applied Mathematical Modelling, 2018, 56, 105-122.	4.2	7
36	Propagation characteristics of transverse surface wave in a heterogeneous layer cladded with a piezoelectric stratum and an isotropic substrate. Journal of Intelligent Material Systems and Structures, 2018, 29, 636-652.	2.5	4

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37	Analysis of propagation characteristics of a shear wave in a frictionally bonded fibre-reinforced stratum. Acta Mechanica, 2018, 229, 4229-4238.	2.1	2
38	Reflection and Transmission of P-Waves in an Intermediate Layer Lying Between Two Semi-infinite Media. Pure and Applied Geophysics, 2018, 175, 4305-4319.	1.9	6
39	Influence of corrugated boundary surface and reinforcement of fibre-reinforced layer on propagation of torsional surface wave. JVC/Journal of Vibration and Control, 2017, 23, 1417-1436.	2.6	7
40	Effect of moving load due to irregularity in ice sheet floating on water. Acta Mechanica, 2017, 228, 1749-1765.	2.1	6
41	Magnetoelastic shear wave propagation in pre-stressed anisotropic media under gravity. Acta Geophysica, 2017, 65, 189-205.	2.0	8
42	Shear Wave Propagation in a Cylindrical Earth Model. Procedia Engineering, 2017, 173, 1959-1966.	1.2	1
43	Green's function approach to study the propagation of SH-wave in piezoelectric layer influenced by a point source. Mathematical Methods in the Applied Sciences, 2017, 40, 4771.	2.3	13
44	Propagation of Rayleigh-type wave in an initially stressed heterogeneous crustal layer resting on rigid surface. AIP Conference Proceedings, 2017, , .	0.4	0
45	Shear Wave Propagation Due to a Point Source. Procedia Engineering, 2017, 173, 1544-1551.	1.2	4
46	Rayleigh waves in liquid layer resting over an initially stressed orthotropic half-space under self-weight. Arabian Journal of Geosciences, 2017, 10, 1.	1.3	9
47	Propagation of shear waves in homogeneous and inhomogeneous fibre-reinforced media on a cylindrical Earth model. Applied Mathematical Modelling, 2017, 52, 493-511.	4.2	16
48	Shear wave in a pre-stressed poroelastic medium diffracted by a rigid strip. Journal of Sound and Vibration, 2017, 407, 16-31.	3.9	6
49	Effects of Anisotropy, Initial Stress, Heterogeneity, and Gravity on Torsional Wave Propagation. International Journal of Geomechanics, 2017, 17, .	2.7	6
50	Dynamic response of normal moving load on an irregular fiber-reinforced half-space. JVC/Journal of Vibration and Control, 2016, 22, 77-88.	2.6	13
51	The plane waves at the edge of a uniformly pre-stressed fiber-reinforced plate. JVC/Journal of Vibration and Control, 2016, 22, 2530-2541.	2.6	5
52	Effect of Internal Friction and the LamÃ© Ratio on Stoneley Wave Propagation in Viscoelastic Media of Order 1. International Journal of Geomechanics, 2016, 16, 04015090.	2.7	6
53	Influence of Heterogeneity on the Propagation Behavior of Love-Type Waves in a Layered Isotropic Structure. International Journal of Geomechanics, 2016, 16, .	2.7	14
54	Effect of Heterogeneity, Irregularity, and Reinforcement on the Stress Produced by a Moving Load on a Self-Reinforced Composite Half-Space. International Journal of Geomechanics, 2016, 16, 04015066.	2.7	4

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55	Reflection of Three-Dimensional Plane Waves in a Self-Reinforced Medium under Initial Stresses. Journal of Engineering Mechanics - ASCE, 2016, 142, .	2.9	11
56	Wave propagation in heterogeneous layers of the Earth. Waves in Random and Complex Media, 2016, 26, 626-641.	2.7	11
57	Reflection and transmission of plane wave through fluid layer of finite width sandwiched between two monoclinic elastic half-spaces. Acta Mechanica, 2016, 227, 3687-3701.	2.1	22
58	Effect of Corrugation and Reinforcement on the Dispersion of SH-wave Propagation in Corrugated Poroelastic Layer Lying over a Fibre-reinforced Half-space. Acta Geophysica, 2016, 64, 1340-1369.	2.0	9
59	Effect of Gravity and Magnetism on Surface Wave Propagation in Heterogeneous Earth Crust. Procedia Engineering, 2016, 144, 1195-1204.	1.2	0
60	Reflection and Refraction for Three-Dimensional Plane Waves at the Interface between Distinct Anisotropic Half-Spaces under Initial Stresses. International Journal of Geomechanics, 2016, 16, .	2.7	21
61	Effect of smooth moving punch in an initially stressed monoclinic magnetoelastic crystalline medium due to shear wave propagation. JVC/Journal of Vibration and Control, 2016, 22, 2719-2730.	2.6	15
62	Quasi-P and quasi-S waves in a selfâ€“reinforced medium under initial stresses and under gravity. JVC/Journal of Vibration and Control, 2016, 22, 3965-3985.	2.6	16
63	Smooth moving punch in an initially stressed transversely isotropic magnetoelastic medium due to shear wave. Mechanics of Advanced Materials and Structures, 2016, 23, 774-783.	2.6	10
64	Effects of linear and exponential heterogeneity on the dynamic response of a moving load in an irregular isotropic half-space: a comparative study. Geomechanics and Geoengineering, 2016, 11, 201-218.	1.8	1
65	Love-Type Wave Propagation in an Irregular Prestressed Composite Sandwiched Layer. International Journal of Geomechanics, 2016, 16, 04015060.	2.7	8
66	Propagation of crack in a pre-stressed inhomogeneous poroelastic medium influenced by shear wave. Engineering Fracture Mechanics, 2016, 154, 191-206.	4.3	9
67	Reflection and transmission of plane waves through isotropic medium sandwiched between two highly anisotropic half-spaces. Waves in Random and Complex Media, 2016, 26, 42-67.	2.7	14
68	Seismic Waves in Heterogeneous Crust-Mantle Layers under Initial Stresses. Journal of Earthquake Engineering, 2016, 20, 39-61.	2.5	18
69	Propagation of Torsional Waves in a Fiber Composite Layer Lying over an Initially Stressed Viscoelastic Half-Space. International Journal of Geomechanics, 2016, 16, 04015014.	2.7	8
70	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. Journal of Earth System Science, 2015, 124, 1457-1474.	1.3	7
71	Love-type wave propagation in a piezoelectric structure with irregularity. International Journal of Engineering Science, 2015, 89, 35-60.	5.0	27
72	Torsional wave in an initially stressed layer lying between two inhomogeneous media. Meccanica, 2015, 50, 1775-1789.	2.0	16

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73	Response of moving load due to irregularity in slightly compressible, finitely deformed elastic media. Mechanics Research Communications, 2015, 66, 49-59.	1.8	7
74	Influence of corrugated boundary surfaces, reinforcement, hydrostatic stress, heterogeneity and anisotropy on Love-type wave propagation. Meccanica, 2015, 50, 2977-2994.	2.0	22
75	Dispersion of shear wave propagating in vertically heterogeneous double layers overlying an initially stressed isotropic half-space. Soil Dynamics and Earthquake Engineering, 2015, 69, 16-27.	3.8	20
76	Propagation of torsional wave in a composite layer overlying an anisotropic heterogeneous half-space with initial stress. JVC/Journal of Vibration and Control, 2015, 21, 1987-1998.	2.6	19
77	Propagation of surface wave in a fluid layer overlying a slightly compressible, finitely deformed elastic medium. JVC/Journal of Vibration and Control, 2015, 21, 2697-2704.	2.6	5
78	Duality in fuzzy multi objective linear programming problem with multi constraint. International Journal of Mathematics in Operational Research, 2014, 6, 297.	0.2	8
79	Effect of irregularity and heterogeneity on the stresses produced due to a normal moving load on a rough monoclinic half-space. Meccanica, 2014, 49, 2861-2878.	2.0	21
80	Propagation of a crack due to magnetoelastic shear waves in a self-reinforced medium. JVC/Journal of Vibration and Control, 2014, 20, 406-420.	2.6	29
81	Reflection in a highly anisotropic medium for three-dimensional plane waves under initial stresses. International Journal of Engineering Science, 2014, 85, 136-149.	5.0	37
82	Dispersion of horizontally polarized shear waves in an irregular non-homogeneous self-reinforced crustal layer over a semi-infinite self-reinforced medium. JVC/Journal of Vibration and Control, 2013, 19, 109-119.	2.6	46
83	Effect of point source and heterogeneity on the propagation of SH-Waves in a viscoelastic layer over a viscoelastic half space. Acta Geophysica, 2012, 60, 119-139.	2.0	43
84	Propagation of magnetoelastic shear waves in an irregular self-reinforced layer. Journal of Engineering Mathematics, 2012, 75, 139-155.	1.2	56
85	Propagation of shear waves in viscoelastic medium at irregular boundaries. Acta Geophysica, 2010, 58, 195-214.	2.0	42
86	Comment on â€œcalculation of reflection and transmission coefficients for qP waves incident on a planar interface between isotropic and triclinic mediaâ€•by L. Li. Acta Geophysica, 2008, 56, 1202-1204.	2.0	0
87	Reflection for three-dimensional plane waves in triclinic crystalline medium. Applied Mathematics and Mechanics (English Edition), 2007, 28, 1309-1318.	3.6	24
88	A model for spherical SH wave propagation in self-reinforced linearly elastic media. Archive of Applied Mechanics, 2006, 75, 113-124.	2.2	22