

List of Publications (S. A. Sahu)

(As on June 15, 2023)

(A) In peer reviewed journals

1. Baroi, J. and Sahu, S.A. (2023). Analysis of higher modes of Rayleigh-type waves in fibre-piezo thermoelastic composite structure. Accepted in *Journal of Thermal Stresses*. DOI: 10.1080/01495739.2023.2221315. **[IF-3.45] (SCI/Q2)**
2. Karmakar Subhashis, **Sahu S. A.** and Goyal S. (2023). Reflection and refraction of plane wave at the junction of two dissimilar pre-stressed functionally graded piezothermoelastic media under different interfacial conditions. *Mathematics and Mechanics of Solids*, 28(4), 891–919. **[IF-2.71] (SCI/Q2)**
3. Kumari Shreeta, **Sahu S. A.** and Pankaj, K. K. (2023). Analysis of SH wave in hollow piezo-composite cylinder with coupled imperfect interface condition. *Mechanics Based Design of Structures and Machines*, 51(4), 2080-2100. **[IF-4.36] (SCI/Q1)**
4. **Sahu S. A.**, Sonali Mondal and S. Nirwal, (2023). Mathematical Analysis of Rayleigh waves at non-planar boundary between orthotropic and micropolar media. *International Journal of Geomechanics*, 23(3), p.04022313. **[IF-3.918] (SCI/Q3)**
5. Kumari Shreeta and **Sahu S. A.** (2022) SH wave vibration in functionally graded porous piezoelectric composite loaded with Newtonian conductive/non-conductive liquid. *Waves in Random and Complex Media*, doi: <https://doi.org/10.1080/17455030.2022.2058716>. **[IF-4.05] (SCI/Q2)**
6. Sonali Mondal, **Sahu S. A.** and S. Nirwal, (2022). Analysis of wave scattering on piezoelectric surface with flexoelectric effect. *Mathematical Methods in the Applied Sciences*. <https://doi.org/10.1002/mma.8272> **[IF-3.01] (SCI/Q1)**
7. Saqib, M., Şentürk, E., Sahu, S. A., and Adil, M. A. (2022). Comparisons of autoregressive integrated moving average (ARIMA) and long short term memory (LSTM) network models for ionospheric anomalies detection: a study on Haiti (M_w=7.0) earthquake. *Acta Geodaetica et Geophysica*, 1-19. **[IF-1.768] (SCI/Q3)**
8. Biswas, M., and **Sahu S. A.** (2022). Surface wave dispersion in imperfectly bonded flexoelectric-piezoelectric/FGPM bi-composite in contact of Newtonian liquid. *Mechanics of Advanced Materials and Structures*, 1-18. **[IF-3.33] (SCI/Q2)**
9. Biswas, M., and **Sahu S. A.** (2022). Analysis of Love-type acoustic wave in a functionally graded piezomagnetic plate sandwiched between elastic layers. *Acta Mechanica*, 233(11), 4295-4310. **[IF-2.64] (SCI/Q2)**
10. **Sahu S. A.**, and Biswas, M. (2022). Mass loading effect on surface wave in piezoelectric–flexoelectric dielectric plate clamped on fiber-reinforced rigid base. *International Journal of Mechanics and Materials in Design*, 18(4), 919-938. **[IF-3.56] (SCI/Q2)**

11. **Sahu S. A.**, and Biswas, M. (2022). Acoustic surface wave dispersion with strain gradient elasticity and micro-inertia effect in lossy polymer-coated piezoelectric structure. *Waves in Random and Complex Media*, 1-27. **[IF-4.05] (SCI/Q2)**
12. Karmakar, Subhashis, Sahu, S. A., and Goyal, S. (2022). Analysis of wave scattering at the loosely bonded common interface of piezothermoelastic and isotropic elastic media under LS (Lord-Shulman) and GL (Green-Lindsay) theory of thermoelasticity. *Journal of Thermal Stresses*, 45(2), 117–138. **[IF-3.45] (SCI/Q2)**
13. Mondal, S., Sahu, S.A. and Goyal S., (2022). Mathematical analysis of Surface wave transference through imperfect interface in FGPM bedded structure. *Mechanics Based Design of Structures and Machines*. DOI: 10.1080/15397734.2020.1790388. **[IF-4.36] (SCI/Q1)**
14. Singhal, A., Sahu, S.A., Chaudhary, S., Sultana, M. (2022). 'Scattering and Backscattering Study of Mechanical Plane Wave in Composite Materials Plates (Earth model 1066B and LiNbO3)', Accepted in *Journal of Applied and Computational Mechanics*, doi: 10.22055/jacm.2020.30804.1784. **(SCOPUS)**
15. Karmakar, S., Sahu, S. A., and Goyal, S ,2022. Wave scattering of plane wave at the loosely bonded interface of two dissimilar rotating triclinic magneto-thermoelastic media under nonlinear thermoelasticity and DPL model. *Journal of Thermal Stresses*, 45(11), 886-917. **[IF-3.45] (SCI/Q2)**
16. Nirwal, S., **Sahu, S. A.**, and Mondal, S. (2022). Reflection and transmission of waves at the common interface of piezoelectric half-spaces with microstructure. *Applied Mathematical Modelling*. 101, 533-552. **[IF-5.33] (SCI/Q1)**
17. Baroi, J., Sahu, S. A., and Nirwal, S. (2021). Anti-plane shear wave motion in a composite layered structure with slit. *Waves in Random and Complex Media*, 1-20. **[IF-4.05] (SCI/Q2)**
18. **Sahu, S. A.**, Nirwal, S., and Mondal, S. (2021). Reflection and transmission of quasipplane waves at the interface of piezoelectric semiconductors with initial stresses. *Applied Mathematics and Mechanics*, 42(7), 951-968. **[IF-3.918] (SCI/Q1)**
19. **Sahu, S. A.**, Kumari, Shreeta and Pankaj, K. K. (2021). Modelling of Stoneley wave transference at the frictional interface between ice and rock medium. *Archive of Applied Mechanics*, 91(6), 2467-2480. **[IF-2.46] (SCI/Q3)**
20. **Sahu, S. A.**, and Nirwal, S., (2021). An asymptotic approximation of Love wave frequency in a piezo-composite structure: WKB approach. *Waves in Random and Complex Media*. 31(1), 117-145. **[IF-4.05] (SCI/Q2)**
21. Saqib, M., **Sahu, S. A.**, Sakib, M., and Al-Ammar, E. A. (2021). Machine learning-based day-ahead market energy usage bidding for smart microgrids. *Electric Vehicle Integration in a Smart Microgrid Environment* (pp. 249-266).

22. Saqib, M., Şentürk, E., **Sahu, S. A.**, and Adil, M. A. (2021). Ionospheric anomalies detection using autoregressive integrated moving average (ARIMA) model as an earthquake precursor. *Acta Geophysica*, 69(4), 1493-1507. **[IF-2.29] (SCI/Q3)**
23. Goyal, S., and **Sahu, S. A.**, 2021. Viscous loading effect on the transference of Love type waves in piezomagnetic layered structure. *Waves in Random and Complex Media*, 1-16. **[IF: 4.05] (SCI/Q2)**
24. Goyal, S., and Sahu, S. A., 2021. Love wave transference in piezomagnetic layered structure guided by an imperfect interface. *GEM-International Journal on Geomathematics*, 12(1), 1-14. **(SCOPUS)**
25. Mondal, S., Sahu S.A. and Goyal S., 2021. Scattering of waves at the interface of two distinct anisotropic media. *Waves in Random and Complex Media*. DOI: 10.1080/17455030.2020.1745929. **[IF-4.05] (SCI/Q2)**
26. Goyal, S., Sahu, S., and Mondal, S. (2020). Influence of imperfect bonding on the reflection and transmission of QP-wave at the interface of two functionally graded piezoelectric materials. *Wave Motion*, 92, 102431. **[IF: 2.17] (SCI/Q2)**.
27. Karmakar, S., Sanjeev A. Sahu, and S. Nirwal. 2020. Method of Green's Function for Characterization of SH Waves in Porous-Piezo Composite Structure with a Point Source. *Journal of Solid Mechanics*. 12(1), 72-89. **[IF: 0.53] (SCI/Q3)**
28. Sahu, S. A., and Goyal, S., 2020. Wave scattering through an orthotropic thermoelastic slab sandwiched between two isotropic elastic half-spaces. *Journal of Thermal Stresses*, 43(4), 489-502. **[IF: 3.45] (SCI/Q2)**
29. Saqib, M., **Sahu, S. A.**, & Şentürk, E. (2020). Long Short Term Memory (LSTM) Network Models for Ionospheric Anomalies Detection: A Case Study for Mw= 7.7 Awaran, Pakistan Earthquake. *Intercontinental Geoinformation Days*, 1, 177-180.
30. Pankaj, K., Sahu S. A. And Kumari S., 2020. On the Group Velocity of Love-Type Waves in Composite Structure Loaded with Viscous Fluid. *Waves in Random and Complex Media*. DOI: 10.1080/17455030.2020.1783470. **[IF-4.05] (SCI/Q2)**
31. Nirwal, S., Sahu, S.A., Baroi, J. and Saroj, P.K., 2019. Analysis of wave scattering in 3-layer piezo composite structure [Pb [ZrxTi 1-x]O3-ALN-Pb [ZrxTi 1-x]O3]. *Mechanics Based Design of Structures and Machines*, DOI: 10.1080/15397734.2019.1686991. **[IF-4.36] (SCI/Q1)**
32. Sahu, S.A., Kumari, S., Mondal, S. and Pankaj, K.K., 2019. Analysis of mechanical vibration (SH wave) in Piezo-composite plates. *Materials Research Express*, 6(12), pp.125705. **[IF-2.02] (SCI/Q4)**

33. Sahu, S.A., Baroi, J., Chattopadhyay, A. and Nirwal, S., 2019. Characterization of polarized shear waves in FGPM composite structure with imperfect boundary: WKB method. *International Journal of Applied Mechanics*, 11(9), pp.1950083. [IF-3.95] (SCI/Q2)
34. Chaudhary, S., Sahu, S.A., Singhal, A. and Nirwal, S., 2019. Interfacial imperfection study in pres-stressed rotating multiferroic cylindrical tube with wave vibration analytical approach. *Materials Research Express*, 6(10), pp.105704. [IF-2.02] (SCI/Q4)
35. Singhal, A., Sahu, S.A. and Chaudhary, S., 2019. Study of surface wave vibration in rotating human long bones of cylindrical shape under the magnetic field influence. *Waves in Random and Complex Media*, DOI: 10.1080/17455030.2019.1686551. [IF-4.05] (SCI/Q2)
36. Singhal, A., Sahu, S.A., Nirwal, S. and Chaudhary, S., 2019. Anatomy of flexoelectricity in micro plates with dielectrically highly/weakly and mechanically complaint interface. *Materials Research Express*, 6(10), pp.105714. [IF-2.02] (SCI/Q4)
37. S.A. Sahu, **Sonali Mondal**, and N. Dewangan, 2019. Polarized shear waves in functionally graded piezoelectric material layer sandwiched between corrugated piezomagnetic layer and elastic substrate. *Journal of Sandwich Structures and Materials*, 21(8), pp.2921-2948. [IF-3.75] (SCI/Q1)
38. Singhal, A., Sahu, S.A., Chaudhary, S. and Baroi, J., 2019. Initial and couple stress influence on the surface waves transmission in material layers with imperfect interface. *Materials Research Express*, 6(10), pp.105713. [IF-2.02] (SCI/Q4)
39. **Sonali Mondal** and S.A. Sahu, 2019. Transference of Love-type waves in a bedded structure containing a functionally graded material and a porous piezoelectric medium *Applied Mathematics and Mechanics*, 26(1), pp.29-34. [Taylor and Francis] [IF- 3.918] (SCI/Q1)
40. Saroj, P.K., Sahu, S.A., Singhal, A. and Abo-Dahab, S.M., 2019. On the transference of Love- type waves in pre-stressed PZT-5H material stick on SiO₂ material with irregularity. *Materials Research Express*, 6(12), pp.125703. [IF-2.02] (SCI/Q4)
41. Karmakar, S. and Sahu, S.A., 2019. Wave Reflection and Refraction at the Interface of Triclinic and Liquid Medium. *Journal of Solid Mechanics*, 11(4), pp.918-931.(SCOPUS)
42. Nirwal, S., Sahu, S.A., Baroi, J. and Singh, A., 2019. Analysis of different boundary types on wave velocity in bedded piezo-structure with flexoelectric effect. *Composites Part B: Engineering*, 167, pp. 434-447. [IF-11.32] (SCI/Q1)

43. Goyal, S., Sahu, S.A. and Mondal, S., 2019. Piezomagnetic Layer over a Lossy Viscoelastic Substrate: Sturm-Liouville Problem. *Smart Materials and Structures*, 28(5). [IF-4.13] (SCI/Q2)
44. Mondal S, Sahu S.A. and Pankaj K.K., 2019. Transference of Love-type waves in bedded structure containing functionally graded material and porous piezoelectric medium. *Applied mathematics and mechanics*, 40(8), DOI: 10.1007/s10483-019-2505-6. [IF-3.918] (SCI/Q1)
45. Sahu, S.A. and Nirwal, S., 2019. An asymptotic approximation of Love wave frequency in a piezo-composite structure: WKB approach. *Waves in Random and Complex Media*, DOI: 10.1080/17455030.2019.1567955. [IF-4.05] (SCI/Q2)
46. Sahu, S.A., Goyal, S. and Mondal, S., 2018. Dynamics of Love-Type Waves in Orthotropic Layer under the Influence of Heterogeneity and Corrugation. Accepted in *Journal of Solid Mechanics*. (SCOPUS)
47. Mondal, S. and AnandSahu, S., 2019. Propagation of SH waves in corrugated FGPM layer lying over a piezomagnetic half-space. *Mechanics of Advanced Materials and Structures*, 26(1), pp. 29-34. [IF-3.33] (SCI/Q2)
48. Sahu, S.A., Pankaj, K.K. and Kumari, S., 2018. Modeling of SH-Wave Propagation in a Pre- stressed Highly Anisotropic Layered Structure. *Mathematical Geosciences*, 51(6), pp.1-18. [IF- 2.50] (SCI/Q2)
49. Singh, M.K., Sahu, S.A., Singhal, A. and Chaudhary, S., 2018. Approximation of surface wave velocity in smart composite structure using Wentzel–Kramers–Brillouin method. *Journal of Intelligent Material Systems and Structures*, 29(18), pp. 3582-3597. [IF-2.77] (SCI/Q3)
50. Sahu, S.A., Singh, M.K. and Pankaj, K.K., 2018. Analysis of Torsional Waves in a Prestressed Composite Structure with Loosely Bonded and Corrugated Boundaries. *Mechanics of Composite Materials*, 54(3), pp.321-332. [IF-1.28] (SCI/Q4)
51. Singhal, A., Sahu, S.A. and Chaudhary, S., 2018. Approximation of surface wave frequency in piezo-composite structure. *Composites Part B: Engineering*, 144, pp.19-28. [IF-11.32] (SCI/Q1)
52. Chaudhary, S., Sahu, S.A. and Singhal, A., 2018. On secular equation of SH waves propagating in pre-stressed and rotating piezo-composite structure with imperfect interface. *Journal of Intelligent Material Systems and Structures*, 29(10), pp.2223-2235. [IF-2.77] (SCI/Q3)
53. Baroi, J., Sahu, S.A. and Singh, M.K., 2018. Dispersion of polarized shear waves in viscous liquid over a porous piezoelectric substrate. *Journal of Intelligent Material Systems and Structures*, 29(9), pp.2040-2048. [IF-2.77] (SCI/Q3)
54. Sahu, S.A., Chaudhary, S. and Paswan, B., 2018. Scattering phenomenon of qP wave at the interface of FGPM and piezoelectric medium. *Waves in Random and Complex Media*, 29(3), pp.435-455. [IF-4.05] (SCI/Q2)

55. Chaudhary, S., Sahu, S.A., Dewangan, N. and Singhal, A., 2018. Stresses produced due to moving load in a prestressed piezoelectric substrate. *Mechanics of Advanced Materials and Structures*, 26(12), pp.1028-1041. **[IF-3.33] (SCI/Q2)**
56. Sahu, S.A., Singhal, A. and Chaudhary, S., 2018. Surface wave propagation in functionally graded piezoelectric material: an analytical solution. *Journal of Intelligent Material Systems and Structures*, 29(3), pp.423-437. **[IF-2.77] (SCI/Q3)**
57. Singhal, A., Sahu, S.A. and Chaudhary, S., 2018. Liouville-Green approximation: An analytical approach to study the elastic waves vibrations in composite structure of piezo material. *Composite Structures*, 184, pp.714-727. **[IF-6.60] (SCI/Q1)**
58. Sahu, S.A. and Baroi, J., 2018. Analysis of surface wave behavior in corrugated piezomagnetic layer resting on inhomogeneous half-space. *Mechanics of Advanced Materials and Structures*, 26(7), pp. 639-650. **[IF-3.33] (SCI/Q2)**
59. Sahu, S.A., Pankaj, K.K. and Kumari, S., 2018. Torsional Wave Frequency in Corrugated Poroelastic Layer Bonded Between Anisotropic Media. *TECHNISCHE MECHANIK*, 38(3), pp.220-232. **(SCOPUS)**
60. Singh, M.K. and Sahu, S.A., 2017. Torsional Wave Propagation in a Pre-Stressed Structure with Corrugated and Loosely Bonded Surfaces. *Journal of Theoretical and Applied Mechanics*, 47(4), pp.48-74. **[IF: 0.72] (SCI/Q4)**
61. Chaudhary, S., Sahu, S.A. and Paswan, B., 2017. Transference of SH waves through irregular interface between corrugated piezoelectric layer and prestressed viscoelastic substrate. *Mechanics of Advanced Materials and Structures*, 26(2), pp.156-169. **[IF-3.33] (SCI/Q2)**
62. Sahu, S.A., Chaudhary, S., Saroj, P.K. and Chattopadhyay, A., 2017. Transference of SH-Waves in Fluid Saturated Porous Medium Sandwiched Between Heterogeneous Half-Spaces. *Journal of Solid Mechanics*, 9(3), pp.619-631. **(SCOPUS)**
63. Saroj, P.K. and Sahu, S.A., 2017. Reflection of Plane Wave at Traction-Free Surface of a Pre- Stressed Functionally Graded Piezoelectric Material (FGPM) Half-Space. *Journal of Solid Mechanics*, 9(2), pp.411-422. **(SCOPUS)**
64. Sahu, S.A., Chaudhary, S., Saroj, P.K. and Chattopadhyay, A., 2017. Rayleigh waves in liquid layer resting over an initially stressed orthotropic half-space under self-weight. *Arabian journal of geosciences*, 10(5), p.120. **[IF-1.82] (SCI/Q3)**
65. Kumari, N., Chattopadhyay, A., Singh, A.K. and Sahu, S.A., 2017. Magnetoelastic shear wave propagation in pre-stressed anisotropic media under gravity. *Acta Geophysica*, 65(1), pp.189- 205. **[IF-2.29] (SCI/Q2)**
66. Chaudhary, S., Sahu, S.A. and Singhal, A., 2017. Analytic model for Rayleigh wave propagation in piezoelectric layer overlaid orthotropic substratum. *Acta Mechanica*, 228(2), pp.495-529. **[IF-2.64] (SCI/Q2)**

67. Paswan, B., Sahu, S.A. and Saroj, P.K., 2017. Dynamic Response of Heterogeneity and Reinforcement on the Propagation of Torsional Surface Waves. *TECHNISCHE MECHANIK*, 37(1), pp.69-81. (SCOPUS)
68. Sahu, S.A., Singhal, A. and Chaudhary, S., 2017. Influence of Heterogeneity on Rayleigh Wave Propagation in an Incompressible Medium Bonded Between Two Half-Spaces. *Journal of Solid Mechanics*, 9(3), pp. 555-567. (SCOPUS)
69. Sahu, S.A., Mondal, S. and Dewangan, N., 2017. Polarized shear waves in functionally graded piezoelectric material layer sandwiched between corrugated piezomagnetic layer and elastic substrate. *Journal of Sandwich Structures and Materials*, 21(8), pp.2921-2948. [IF-3.75] (SCI/Q1)
70. Singh, M. K. and Sahu, S.A., 2017. Effect of Anisotropy, Earth Magnetism and Irregular Boundary on Polarized Shear wave propagation. *Procedia engineering*, 173, pp.1138-1145. (SCOPUS)
71. Chaudhary, S. and Sahu, S.A., 2017. Influence of Surface Waves in Magnetoelastic Half-space with Gravity. *Procedia engineering*, 173, pp.1014-1020. (SCOPUS)
72. Dewangan, N. and Sahu, S.A., 2017. On Phase Velocity of Love type Waves in Heterogeneous Visco-elastic Medium. *Procedia engineering*, 173, pp.1034-1041. (SCOPUS)
73. Singhal, A. and Sahu, S.A., 2017. Transference of rayleigh waves in corrugated orthotropic layer over a pre-stressed orthotropic half-space with self weight. *Procedia engineering*, 173, pp.972- 979. (SCOPUS)
74. Paswan, B., Sahu, S.A. and Chattopadhyay, A., 2016. Reflection and transmission of plane wave through fluid layer of finite width sandwiched between two monoclinic elastic half-spaces. *Acta Mechanica*, 227(12), pp.3687-3701. [IF-2.64] (SCI/Q2)
75. Singh, A.K., Kumari, N., Chattopadhyay, A. and Sahu, S.A., 2016. Smooth moving punch in an initially stressed transversely isotropic magnetoelastic medium due to shear wave. *Mechanics of Advanced Materials and Structures*, 23(7), pp.774-783. [IF-3.33] (SCI/Q2)
76. Lama, Y., Sinha, A., Singh, G., Sahu, S.A. and Mishra, B.K., 2016. Modeling the impacts of corrosion product formation on simultaneous sorption and reductive dehalogenation of organochlorine pesticide aldrin by high carbon iron filings (HCIF). *Desalination and Water Treatment*, 57(16), pp.7155-7165. [IF-1.27] (SCI/Q4)
77. Chatterjee, M., Dhua, S., Chattopadhyay, A. and Sahu, S.A., 2016. Reflection and refraction for three-dimensional plane waves at the interface between distinct anisotropic half-spaces under initial stresses. *International Journal of Geomechanics*, 16(4), p.04015099. [IF-3.918] (SCI/Q3)
78. Sahu, S.A., Paswan, B. and Chattopadhyay, A., 2016. Reflection and transmission of plane waves through isotropic medium sandwiched between two highly anisotropic half-spaces. *Waves in Random and Complex Media*, 26(1), pp.42-67. [IF-4.05] (SCI/Q2)

79. Chatterjee, M., Dhua, S., Chattopadhyay, A. and Sahu, S.A., 2016. Seismic waves in heterogeneous crust-mantle layers under initial stresses. *Journal of Earthquake Engineering*, 20(1), pp.39-61. [IF-2.99] (SCI/Q2)
80. Kumari, N., AnandSahu, S., Chattopadhyay, A., and Kumar Singh, A. (2015). Influence of heterogeneity on the propagation behavior of love-type waves in a layered isotropic structure. *International Journal of Geomechanics*, 16(2), 04015062. [IF-3.918](SCI/Q3)
81. Saroj, P.K., Sahu, S.A., Chaudhary, S. and Chattopadhyay, A., 2015. Love-type waves in functionally graded piezoelectric material (FGPM) sandwiched between initially stressed layer and elastic substrate. *Waves in Random and Complex Media*, 25(4), pp.608-627. [IF-4.05] (SCI/Q2)
82. Dhua, S., Chattopadhyay, A. and Sahu, S.A., 2015. Propagation of surface wave in a fluid layer overlying a slightly compressible, finitely deformed elastic medium. *Journal of Vibration and Control*, 21(13), pp.2697-2704. [IF-2.63] (SCI/Q2)
83. Chatterjee, M., Dhua, S., Sahu, S.A. and Chattopadhyay, A., 2014. Reflection in a highly anisotropic medium for three-dimensional plane waves under initial stresses. *International Journal of Engineering Science*, 85, pp.136-149. [IF-7.15] (SCI/Q1)
84. Sahu, S.A., Saroj, P.K. and Paswan, B., 2014. Shear waves in a heterogeneous fiber-reinforced layer over a half-space under gravity. *International Journal of Geomechanics*, 15(2), pp.04014048. [IF-3.918](SCI/Q3)
85. Sahu, S.A., Saroj, P.K. and Dewangan, N., 2014. SH-waves in viscoelastic heterogeneous layer over half-space with self-weight. *Archive of Applied Mechanics*, 84(2), pp.235-245. [IF-2.46] (SCI/Q3)
86. Chattopadhyay, A., Gupta, S., Sahu, S.A. and Dhua, S., 2013. Torsional surface waves in heterogeneous anisotropic half-space under initial stress. *Archive of Applied Mechanics*, 83(3), pp.357-366. [IF-2.46] (SCI/Q3)
87. Chattopadhyay, A., Sahu, S.A. and Singh, A.K., 2013. Dispersion of SH waves in an irregular non homogeneous self-reinforced crustal layer over a semi-infinite self-reinforced medium. *Journal of Vibration and Control*, 19(1), pp.109-119. [IF-2.63] (SCI/Q2)
88. Chattopadhyay, A., Dhua, S. and Sahu, S.A., 2013. Effect of Rigid Boundary, Initial Stress and Inhomogeneity on the Propagation of Torsional Surface Waves. *Research Journal of Science and Technology*, 5(1), p.10.
89. Chattopadhyay, A., Gupta, S., Sahu, S.A. and Singh, A.K., 2013. Dispersion of horizontally polarized shear waves in an irregular non-homogeneous self-reinforced crustal layer over a semi-infinite self-reinforced medium. *Journal of Vibration and Control*, 19(1), pp.109-119. [IF-2.63](SCI/Q2)

90. Chattopadhyay, A. and Sahu, S.A., 2012. Stresses produced in slightly compressible, finitely deformed elastic media due to a normal moving load. *Archive of Applied Mechanics*, 82(5), pp.699-708. [IF-2.46] (SCI/Q3)
91. Chattopadhyay, A., Gupta, S., Sahu, S.A. and Singh, A.K., 2011. Dispersion equation of magnetoelastic shear waves in irregular monoclinic layer. *Applied mathematics and mechanics*, 32(5), pp.571-586. [IF:3.918] (SCI/Q1)
92. Chattopadhyay, A., Gupta, S., Singh, A.K. and Sahu, S.A., 2011. Effect of point source, self-reinforcement and heterogeneity on the propagation of magnetoelastic shear wave. *Applied Mathematics*, 2(03), pp.271.
93. Chattopadhyay, A., Gupta, S., Singh, A.K. and Sahu, S.A., 2011. G-type seismic wave in magnetoelastic monoclinic layer. *Applied Mathematics*, 2(02), pp.145.
94. Chattopadhyay, A., Gupta, S., Sahu, S.A. and Singh, A.K., 2011. Torsional surface waves in a self-reinforced medium over a heterogeneous half space. *International Journal of Geomechanics*, 12(2), pp.193-197. [IF-3.918] (SCI/Q3)
95. Chattopadhyay, A., Sahu, S.A. and Singh, A.K., 2011. Dispersion of G-type seismic wave in magnetoelastic self reinforced layer. *International Journal of Applied Mathematics and Mechanics*, 8(9), pp.79-98.
96. Chattopadhyay, A., Gupta, S., Sahu, S.A. and Singh, A.K., 2010. Dispersion of shear waves in an irregular magnetoelastic self-reinforced layer sandwiched between two isotropic half-spaces. *International Journal of Theoretical and Applied Mechanics*, 5(1), pp.27-45.
97. Chattopadhyay, A., Gupta, S., Singh, A.K. and Sahu, S.A., 2010. Propagation of SH waves in an irregular non homogeneous monoclinic crustal layer over a semi-infinite monoclinic medium. *Applied Mathematical Sciences*, 4(44), pp.2157-2170. (SCOPUS)
98. Chattopadhyay, A., Gupta, S., Singh, A.K. and Sahu, S.A., 2009. Propagation of shear waves in an irregular magnetoelastic monoclinic layer sandwiched between two isotropic half-spaces. *International Journal of Engineering, Science and Technology*, 1(1), pp.228-244.
99. Chattopadhyay, A., Gupta, S., Singh, A.K. and Sahu, S.A., 2011. Effect of point source, self-reinforcement and heterogeneity on the propagation of magnetoelastic shear wave. *Applied Mathematics*, 2(03), pp.271.

(B) In Conference Proceedings/Book chapters

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