

List of Publications

Publication in Journals	
1	Dey,S., Gupta,S. ,Gupta,A.K.,(1993).Torsional surface waves in an elastic half space with void pores – International Journal for Numerical and Analytical Methods in Geomechanics, Arizona, U. S. A. , Vol. 17, 197-204.
2	Dey,S.,Gupta,A.K., Gupta,S. ,(1996).Propagation of Torsional surface waves in a visco-elastic medium – International Journal for Numerical and Analytical Methods in Geomechanics, Arizona, U. S. A. , Vol. 19, 209-213.
3	Dey,S.,Gupta,A.K., Gupta,S. ,(1996).Propagation of Torsional surface waves in a homogeneous substratum over a heterogeneous half space – International Journal for Numerical and Analytical Methods in Geomechanics, Arizona, U. S. A. , Vol. 20, 287-294.
4	Dey,S.,Gupta,A.K., Gupta,S. ,(1996).Propagation of Rayleigh waves in a heterogeneous incompressible substratum over a homogeneous incompressible half space – International Journal for Numerical and Analytical Methods in Geomechanics, Arizona, U. S. A. , Vol. 20, 365-375.
5	Dey,S.,Gupta,A.K., Gupta,S. ,(1996).Torsional surface wave in non-homogeneous and anisotropic medium – Journal of Acoustical Society of America, U. S. A. , Vol. 99 (5), 2737-2741.
6	Dey,S., Gupta,S. ,Gupta,A.K.,(1996).Propagation of Love waves in heterogeneous crust over a heterogeneous mantle – Journal of Acta Geophysica Polonica, Poland , Vol. XLIX, No. 2, 125-137.
7	Dey,S., Gupta,S. ,Gupta,A.K.,(1998).Propagation of Torsional surface waves in dry sandy medium under gravity – Journal of Mathematics and Mechanics of Solids, U. S. A. , Vol. 3, No. 2, 227-235.
8	Dey,S.,Gupta,A.K., Gupta,S. , A. Prasad., (2000).Torsional surface waves in non-homogeneous anisotropic medium under initial stress – Journal of Engineering Mechanics (ASCE), U. S. A. , Vol. 125, No. 11, 1120-1123.
9	Dey,S., Gupta,S. ,Gupta,A.K., A. Prasad,(2001).Propagation of Torsional surface waves in a heterogeneous half space under rigid layer – Journal of Acta Geophysica Polonica, Poland , Vol. XLIX, 113-118, 2001.
10	Dey,S.,Gupta,A.K., Gupta,S. ,(2002).Effect of Gravity and Initial stress on Torsional surface waves in dry sandy medium – Journal of Engineering Mechanics (ASCE), U.S.A. , Vol.128, No.10. 1115-1118.

11	Dey,S., Gupta,S. ,Gupta,A.K., S.K.Kar & P.Dey ,(2003).Propagation of Torsional surface waves in an elastic layer with void pores over an elastic half space with void pores- Tamkang Journal of Science and Engineering , Vol.6 no. 4 pp 241-249.
12	Gupta, S. (2003),Mathematical Model for torsional surface waves. Proc. of Fourth MATHMOD, Vienna , Austria, Feb 5-7,2003.
13	Dey,S., Gupta,S. ,Gupta,A.K.,(2004).Propagation of Love waves in an elastic layer with void pores. SADHANA, Academy Proc. In Engg. Sciences, (Springer-Verlag) Vol. 29, Part 4, 2004.
14	Dey,S., Gupta,S. , De,P.K.(2006), Effect of anisotropic and initial stresses in edge wave propagation, Proc. of Int. Conf. of Mathematicians (ICM 2006) Aug 22 – 30, 2006, Madrid, Spain .
15	Gupta,S. ,Chattopadhyay,A.,Kumari Pato,(2007) Propagation of shear wave in anisotropic medium, Applied Mathematical Sciences , Vol.1, 2007, no. 55, 2699 – 2706.
16	Gupta,S. ,Chattopadhyay,A.,Kundu,S.,(2007).Torsional wave propagation in a heterogeneous media, International Journal of Mechanics and Solids , Vol.2, No. 1.
17	Chattopadhyay,A., Gupta,S. ,V.K.Sharma,Pato Kumari,(2008). Propagation of shear waves in an irregular boundary of an anisotropic medium, International Journal of Applied Engineering Research , Vol. 3, No. 4. pp 461-472
18	Chattopadhyay,A., Gupta,S. , V.K.Sharma,V.K.,Kumari,Pato(2008). Propagation of SH waves in an irregular monoclinic crustal layer, Archive of Applied Mechanics , Springer-Verlag Vol.78, 989-999.
19	Chattopadhyay,A., Gupta,S. , Samal,S.K., Sharma,V.K.(2009) Torsional waves in self-reinforced media, International Journal of Geomechanics , (ASCE),Volume 9, Issue 1, pp. 9-13 .
20	Gupta,S. ,Chattopadhyay,A., Kundu, S. Gupta, A.K.,(2009) , Effect of rigid boundary on the propagation of torsional waves in a homogeneous layer over a heterogeneous half-space. Archive of Applied Mechanics, Springer-Verlag , Vol. 80, No. 2. pp. 143 - 150
21	A. Chattopadhyay, S. Gupta , Pato Kumari and V. K. Sharma ,Dispersion of G type seismic waves in low velocity layer, International Journal of Applied Engineering Research , Vol. 4, No. 3, pp. 467—479March (2009)
22	Chattopadhyay,A., Gupta,S. , Singh,A.K.,(2009), Influence of Gravity on the propagation of SH waves in a Magnetoelastic Self-reinforced media, International Journal of Mechanics and Solids , ISSN 0973-1881,Vol.4, No. 1 , pp 71- 83

23	Chattopadhyay,A., Gupta,S. , V.K.Sharma,V.K.,Kumari,Pato(2009),Reflection and refraction of plane Quasi-P waves at a corrugated interface between distinct triclinic elastic half spaces. International Journal of Solids and Structures, (ELSEVIER) , 46 (2009) 3241-3256.
24	Chattopadhyay,A., Gupta,S. , V.K.Sharma,V.K.,Kumari,Pato(2009),Propagation of G type of waves in viscoelastic medium, International Journal of Applied Mathematics and Mechanics (IJAMM) , (Accepted)
25	Gupta,S. ,Chattopadhyay,A. and Kundu, S.,(2009) ,Effect of irregularity and heterogeneity on the propagation of torsional waves, International Journal of Mathematical Sciences and Engineering Applications (IJMSEA) , vol. 3, No. IV . pp. 77- 88
26	Gupta,S. ,Chattopadhyay,A. and Kundu,S.,(2009), Propagation of torsional waves in a heterogeneous medium with irregular boundary International Journal of Applied Engineering Research (IJAER) . Vol. 4, No. 8, pp. 1567-1578 .
27	Gupta,S. ,Chattopadhyay,A., Kundu, S. Gupta, A.K.,(2009), Propagation of torsional surface waves in gravitating anisotropic porous half space with rigid boundary. International Journal of Applied Mathematics and Mechanics (IJAMM) . (Accepted).
28	Chattopadhyay,A., Gupta,S. , V.K.Sharma,V.K. and Kumari,Pato(2009), Propagation of Shear waves in viscoelastic medium at irregular boundaries, Acta Geophysica. ,Vol. 58, no. 2, pp. 195-214 (Springer-Verlag).
29	Karmakar, N.C., Gupta,S. , Kundu, S.,(2009), Controlled recirculation in auxiliary ventilation of underground coal mines - a mathematical approach, World Mine Ventilation Congress . Vol. 2. pp 1041-1050.
30	Gupta,S. ,Chattopadhyay,A. and Kundu,S.,(2010), Influence of irregularity and rigidity on the propagation of torsional wave , Applied Mathematical Sciences . Vol.4, No.17, pp. 805-816
31	Chattopadhyay,A., Gupta,S. , Singh,A.K & Sahu S. A. ,(2010)Propagation of shear waves in an irregular magnetoelastic monoclinic layer sandwiched between two isotropic half-spaces, International Journal of Engineering, Science and Technology , Vol. 1, No. 1, 2009, pp. 228-244
32	Chattopadhyay,A., Gupta,S. , Chattopadhyay,Ananga & Singh,A.K.(2010) The Dispersion of Shear wave in Multilayered Magnetoelastic Self-reinforced Media, International Journal of Solids and Structures, (ELSEVIER) , 47, 1317-1324
33	S.Gupta , A.Chattopadhyay and D.K.Majhi,(2010) Effect of irregularity on the propagation of torsional surface waves in an initially stressed anisotropic poro-elastic layer “ Applied Mathematics and Mechanics ” . 31(4), 481–492 (2010) DOI 10.1007/s10483-010-0408-9,(Springer-Verlag).

34	A.Chattopadhyay, S. Gupta , V.K. Sharma and Pato Kumari,(2010), Effects of irregularity and anisotropy on the propagation of SH waves", ' International Journal of Engineering, Science and Technology ' Vol.2, No.1, 2010, pp 116- 126.
35	Dey,S., Gupta,S. ,(1985).Propagation of Plane waves in granular medium. Proc.of the workshop on solid mechanics, March 13-16, Univ. of Roorkee. INDIA.
36	Dey,S., Gupta,S. ,(1987).Longitudinal and shear waves in an elastic medium with void pores. Proc. Indian National Sci. Acad.INDIA Vol.53A,No. 4,554-563.
37	S.Dey, Gupta,S. ,Gupta,A.K.& Kar ,S.K.(1998).Propagation of Torsional surface waves in a granular medium – Buletin of Calcutta Math. Society, Calcutta, INDIA, 90, 129-138.
Publications in Int. / National Proceeding	
38	Rayleigh waves in an elastic half space with void pores -- Proceedings of Third International Conference on Vibration Problems, (ICOVP – 96), North Bengal University, Siliguri, West Bengal, INDIA, 1996. (Co-author:S.Dey)
39	Torsional surface waves in non-homogeneous and anisotropic medium. Proceedings of Fourth International Conference on Vibration Problems, (ICOVP – 99), Dept. of Mathematics, Jadavpur University, Calcutta, West Bengal,INDIA, 1999.(Co-author:s.Dey)
40	Effect of rigid boundary on the propagation of torsional surface waves in a non-homogeneous medium. Proc.of National Seminar on Application of Mathematics in Social and Industrial Sectors in Next Millenium,Oct 26-27, 1999, Dept. of Maths.,B.I.T.Mesra,Ranchi.India (co-author: A.M.Prasad)
41	Propagation of torsional surface waves in granular medium. Mathematics and Engg. Tech.P.34-38 (1997).
42	Propagation of Torsional surface waves in non-homogeneous medium –Proc. of National Seminar on Advances in Mechanics of Solids with special emphasis on fracture mechanics, University of Calcutta, Kolkata, March 11-12, 2004 (Co-authors : S. Dey and A. K. Gupta).
43	Torsional Surface waves under rigid layer. SAP(UGC) Seminar on Recent Advances in Theo. And Appl. Seismology, March 3-4,2005, Dept. of Applied Maths. ISM Dhanbad.(Co-author :A.M.Prasad).
44	The influence of gravity on Torsional surface waves in anisotropic porous half space -- Proceedings of National Seminar on Advances in Mathematics and Applications, The University of Burdwan, Burdwan, January 18-20, 2006.(co-author-A.K.Gupta).

45	Torsional surface waves in a non-homogeneous medium under rigid layer- Proceedings of National Seminar on Recent Advances in Theoretical and Applied Seismology, Indian School of Mines Dhanbad, March 20-21, 2006.(co-author-A.K.Gupta).
46	Effect of in-homogeneity and anisotropy on the propagation of shear wave in incompressible and initially stressed medium. Proceedings of National Seminar on Recent Advances in Theoretical and Applied Seismology, Indian School of Mines Dhanbad, March 20-21, 2006.(co-author- S.Kundu).
47	Propagation of shear wave in an initially stressed anisotropic medium, National Seminar on Recent Advances in Theoretical and Applied Seismology, March 21 – 22, 2007, ISMU Dhanbad.(co-author- Pato Kumari)
48	Propagation of torsional surface waves in gravitating anisotropic porous half space under rigid layer, Proc. of 3 rd WMVC-2006, National Conf. on Applicable Mathematics in Wave Mechanics and Vibrations, Oct' 15 – 17,2006, Jaypee Inst. Of Engg. And Tech.(M.P.).(co-author- S. Kundu)
49	Propagation of Shear waves in an irregular boundary of an anisotropic medium, National Seminar on Recent Advances in Theoretical and Applied Seismology, March 21 – 22, 2007, ISMU Dhanbad.(co-author- A.Chattopadhyay, & Vikash)
50	Propagation of Shear waves due to a point source in homogeneous medium overlying a heterogeneous Medium, Twenty Third Annual Conference of the Mathematical Society, BHU, Dec'29-30,2007 .(co-author- A.Chattopadhyay, & Pato Kumari)
51	Propagation of SH wave caused by irregularity in a monoclinic internal stratum, Twenty Third Annual Conference of the Mathematical Society, BHU, Dec'29-30,2007 .(co-author- A.Chattopadhyay, & V.K.Sharma)
52	Effect of irregularity on the propagation of torsional waves in a heterogeneous medium, Twenty Third Annual Conference of the Mathematical Society, BHU, Dec'29-30,2007 .(co-author- A.Chattopadhyay, & S.Kundu)
53	Effect of gravity on the propagation of torsional surface waves in an anisotropic porous half space, International Conf. on Frontier of Mathematics and Application(ICFMA-2008),Jan.16-18,2008Dept. of Maths.,Univ. of Burdwan.(Co-author: S.Kundu)
54	Torsional surface waves in a gravitating sandy medium under rigid layer, International Conf. on Frontier of Mathematics and Application(ICFMA-2008),Jan.16-18,2008Dept. of Maths.,Univ. of Burdwan.(Co-author: A.K.Gupta)

55	Gupta,S & Majhi,D.K. , Propagation of Love Waves in an initially stressed anisotropic porous layer, National Seminar on Recent Advances in Theoretical and Applied Seismology, Indian School of Mines Dhanbad, March 27-28, 2009.
56	Gupta,S & Majhi,D.K. , Effect of irregularity on the Propagation of Torsional Surface Waves in an initially stressed anisotropic poro-elastic layer, Platinum Jubilee 75 th Annual conference of the Indian Mathematical Society, Dec'27 – 30,2009, Kalasalingam University(Tamil Nadu).
57	A. Chattopadhyay , Gupta,S & Majhi,D.K. Effect of porosity on the propagation of Love waves in an anisotropic porous layer over a prestressed non-homogeneous elastic half space. 5 th National Conf. on Applicable Mathematics in wave Mechanics and vibrations, March 13 – 15, 2010. held in Kakatiya Univ., Warangal, (A.P.).
58	A. Chattopadhyay , Gupta,S , A.K.Singh and S.A.Sahu, Propagation of SH waves in a sandwiched self-reinforced layer with an irregularity. 5 th National Conf. on Applicable Mathematics in wave Mechanics and vibrations, March 13 – 15, 2010. held in Kakatiya Univ., Warangal, (A.P.).
59	A. Chattopadhyay , Gupta,S , S.A.Sahu and A.K.Singh, The dispersion equation of magnetoelastic shear waves in an irregular monoclinic internal stratum. , 5 th National Conf. on Applicable Mathematics in wave Mechanics and vibrations, March 13 – 15, 2010. held in Kakatiya Univ., Warangal, (A.P.).