

## List of Publications

Foreign Journal : 55,

National Journal : 03

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

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

24	Chattopadhyay,A., <b>Gupta,S.</b> ,V.K.Sharma,V.K.,Kumari,Pato(2009),Propagation of G type of waves in viscoelastic medium, <b>International Journal of Applied Mathematics and Mechanics (IJAMM)</b> , (Accepted)
25	<b>Gupta,S.</b> ,Chattopadhyay,A. and Kundu, S.,(2009) ,Effect of irregularity and heterogeneity on the propagation of torsional waves, <b>International Journal of Mathematical Sciences and Engineering Applications (IJMSEA)</b> , vol. 3, No. IV . pp. 77- 88.
26	<b>Gupta,S.</b> ,Chattopadhyay,A. and Kundu,S.,(2009), Propagation of torsional waves in a heterogeneous medium with irregular boundary <b>International Journal of Applied Engineering Research (IJAER)</b> . Vol. 4, No. 8, pp. 1567-1578 .
27	Chattopadhyay,A., <b>Gupta,S.</b> ,V.K.Sharma,V.K. and Kumari,Pato(2009), Propagation of Shear waves in viscoelastic medium at irregular boundaries, <b>Acta Geophysica.</b> ,Vol. 58, no. 2, pp. 195-214 ( <b>Springer-Verlag</b> ).
28	Karmakar, N.C., <b>Gupta,S.</b> , Kundu, S.,(2009), Controlled recirculation in auxiliary ventilation of underground coal mines - a mathematical approach, <b>World Mine Ventilation Congress</b> . Vol. 2. pp 1041-1050.
29	Chattopadhyay,A., <b>Gupta,S.</b> , Singh,A.K & Sahu S. A. ,(2019)Propagation of shear waves in an irregular magnetoelastic monoclinic layer sandwiched between two isotropic half-spaces, <b>International Journal of Engineering, Science and Technology</b> , Vol. 1, No. 1, 2009, pp. 228-244
30	<b>Gupta,S.</b> ,Chattopadhyay,A. and Kundu,S.,(2010), Influence of irregularity and rigidity on the propagation of torsional wave , <b>Applied Mathematical Sciences</b> . Vol.4, No.17, pp. 805-816
31	Chattopadhyay,A., <b>Gupta,S.</b> , Chattopadhyay,Ananga & Singh,A.K.(2010) The Dispersion of Shear wave in Multilayered Magnetoelastic Self-reinforced Media, <b>International Journal of Solids and Structures</b> , ( <b>ELSEVIER</b> ), 47, 1317-1324
32	<b>S.Gupta</b> , 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 “ <b>Applied Mathematics and Mechanics</b> ” . 31(4), 481–492 (2010)DOI 10.1007/s10483-010-0408-9,( <b>Springer-Verlag</b> ).
33	A.Chattopadhyay, <b>S. Gupta</b> , V.K. Sharma and Pato Kumari,(2010), Effects of irregularity and anisotropy on the propagation of SH waves", ' <b>International Journal of Engineering, Science and Technology</b> ' Vol.2, No.1, 2010, pp 116- 126.
34	A.Chattopadhyay, <b>S. Gupta</b> , V.K. Sharma and Pato Kumari,(2010), Propagation of torsional waves in an inhomogeneous layer over an inhomogeneous half space, “ <b>MECCANICA</b> ”, DOI :10.1007/s11012-010-9329-5 [I.F- 0.892]. ,( <b>Springer-Verlag</b> )
35	A.Chattopadhyay, <b>S. Gupta</b> , V.K. Sharma and Pato Kumari,(2010), Effect of point source heterogeneity on the propagation of SH-waves. <b>Int. J. of Appl. Math and Mech.</b> 6 (9): 76-89, 2010 .

36	<b>Gupta,S., Chattopadhyay,A., Kundu, S. Gupta, A.K.,(2010), Propagation of torsional surface waves in gravitating anisotropic porous half space with rigid boundary. <i>Int. J. of Appl. Math and Mech.vol. 6 (11): 17-25, 2010.</i></b>
37	<b>Chattopadhyay,A.,Gupta,S.,Sharma,V.K.,and Kumari,Pato(2009), Effect of point source and heterogeneity on the propagation of SH waves , <i>Int. J. of Appl. Math and Mech.vol. 6 (9): 76-89, 2010.</i></b>
38	<b>S. Gupta, S. Kundu, A.K. Verma and R. Verma, (2010), Propagation of S-waves in a non-homogeneous anisotropic incompressible and initially stressed medium, <i>International Journal of Engineering, Science and Technology Vol. 2, No. 2, 2010, pp. 31-42.</i></b>
39	<b>S.Gupta, A.Chattopadhyay and D.K.Majhi,(2010), Effect of Initial Stress on Propagation of Love Waves in an Anisotropic Porous Layer, <i>Journal of Solid Mechanics, Vol.2, No.1(2010),pp. 50-62.</i></b>
40	<b>Chattopadhyay,A.,Gupta,S., Sahu S. A. &amp; Singh,A.K ,(2010), Dispersion of shear waves in an irregular magnetoelastic self-reinforced layer sandwiched between two isotropic half-spaces, <i>International Journal of Theoretical and Applied Mechanics, Vol. 5, No. 1, pp. 27 – 45.</i></b>
41	<b>Chattopadhyay,A., Gupta,S., A. K. Singh,A.K. &amp; Sahu,S.A.,2010, Propagation of SH waves in an irregular non homogeneous monoclinic crustal layer over a semi-infinite monoclinic medium; <i>Applied Mathematical Sciences,vol.4,no.44, 2157-2170 (2010) [ISSN 1312-885X]</i></b>
42	<b>Chattopadhyay,A., Gupta,S., A. K. Singh,A.K.&amp; Sahu,S.A.,(2011) : Effect of point source, Self-reinforcement and heterogeneity on the propagation of Magnetoelastic Shear wave , <i>Applied Mathematics (AM), Vol. 2 No. 3, 271-282(2011).</i></b>
43	<b>Chattopadhyay,A., Gupta,S., Sahu, S.A. &amp; Singh, A.K (2011), Torsional Surface Waves in a Self-Reinforced Medium Over a Heterogeneous Half-pace, <i>accepted for publication in ASCE's International Journal of Geomechanics.</i></b>
44	<b>Chattopadhyay,A., Gupta,S., A. K. Singh,A.K. &amp; Sahu,S.A.,(2011), G-type Seismic wave in Magnetoelastic Monoclinic Layer; "<i>Applied Mathematics" (USA),vol.2, no. 2, 145 – 154, 2011.</i></b>
45	<b>Chattopadhyay,A.,Gupta,S.,Sharma,V.K.,and Kumari,Pato(2011), "Torsional wave propagation in harmonically inhomogeneous media" <i>International Journal for Numerical and Analytical Methods in Geomechanics, Arizona, U. S. A., (Accepted for publication)</i></b>
46	<b>Gupta,S, A.Chattopadhyay,A. and Majhi, D.K.,(2011) Effect of rigid boundary on propagation of torsional surface waves in porous elastic layer, "<i>Applied Mathematics and Mechanics" . 32(3), 327 - 338 (2011),( Springer-Verlag ).</i></b>
47	<b>Gupta, S., Chattopadhyay, A., Vishawkarma K. Sumit &amp; Majhi D.K.,(2011), Influence of rigid boundary and initial stress on the propagation of Love wave , <i>Applied Mathematics, 2011,2,586- 594, USA.</i></b>

48	<i>Chattopadhyay,A.,Gupta,S.,Sharma,V.K.,and Kumari,Pato(2011), Effect of Point Source and Heterogeneity on the Propagation of SH-Waves in a Viscoelastic Layer Over a Viscoelastic Half Space, Acta Geophysica , DOI: 10.2478/s11600.011-0059-4. (Springer-Verlag).</i>
49	<i>Gupta,A., Gupta, S.,(2011),Torsional surface waves in gravitating anisotropic porous half space, Mathematics and Mechanics of Solids, June 2011 16: 445-450, first published onMay 11, 2011 doi:10.1177/1081286511407056, USA</i>
50.	<b>Gupta,S., Majhi, D.K., Kundu, S., Vishwakarma, S.K.(2011), “ Propagation of torsional surface waves in a homogeneous layer of finite thickness over an initially stressed heterogeneous half-space” Accepted in Applied Mathematics and computation, (ELSEVIER).</b>
51	<b>Gupta, S., Majhi, D.K., Vishwakarma, S.K., Kundu, S.(2011), “ Propagation of torsional surface waves under the effect of irregularity and initial stress ” Accepted in Applied Mathematics</b>
52	<i>Chattopadhyay,A., Gupta,S, Sahu,S.A.,&amp; ., Singh,A.K. (2011), Dispersion equation of magnetoelastic shear waves in irregular monoclinic layer, Appl. Math. Mech.-Eng.Ed., vol.32, no.5, 571-586. ,( Springer-Verlag ).</i>
53	<i>Chattopadhyay,A.,Gupta,S.,Sharma,V.K. and Pato Kumari,(2011),Stress produced on a rough irregular half space by a moving load, Acta Mechanica, ( DOI: 10.1007/s00707-011-0507-x),( Springer-Verlag ).</i>
54	<i>Vishwakarma, Sumit Kumar, Gupta, Shishir, Mathematical modelling of Love wave in an Anisotropic Porous layer, Proceeding of ICMSA-2011, Bangkok, Thailand, ISBN: 978 - 974 - 231- 812 – 3.</i>
55	<i>Chattopadhyay,A., Gupta,S, Sahu,S.A.,&amp; ., Singh,A.K. (2011), “Dispersion of SH waves in an Irregular Non Homogeneous Self-reinforced Crustal Layer over a Semi-infinite Self-reinforced Medium” accepted for publication in Journal of Vibration and Control (SAGE).</i>
56	<i>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.</i>
57	<i>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.</i>
58	<i>S.Dey,Gupta,S.,Gupta,A.K.&amp; Kar ,S.K.(1998).Propagation of Torsional surface waves in a granular medium – Buletin of Calcutta Math. Society, Calcutta, INDIA, 90, 129-138.</i>

<b>Publications in Int. / National Proceeding</b>	
59	<i>Rayleigh waves in an elastic half space with void pores -- Proceedings of Third <b>International Conference</b> on Vibration Problems, (ICOVP – 96), North Bengal University, Siliguri, West Bengal, INDIA, 1996. (Co-author:S.Dey)</i>
60	<i>Torsional surface waves in non-homogeneous and anisotropic medium. Proceedings of <b>Fourth International Conference</b> on Vibration Problems, (ICOVP – 99), Dept. of Mathematics, Jadavpur University, Calcutta, West Bengal,INDIA, 1999.(Co-author:S.Dey)</i>
61	<i>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)</i>
62	<i>Propagation of torsional surface waves in granular medium. Mathematics and Engg. Tech.P.34-38 (1997). .(Co-author:S.Dey)</i>
63	<i>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).</i>
64	<i>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).</i>
65	<i>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).</i>
66	<i>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).</i>
67	<i>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).</i>
68	<i>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)</i>
69	<i>Propagation of torsional surface waves in gravitating anisotropic porous half space under rigid layer, Proc. of 3<sup>rd</sup> 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 )</i>
70	<i>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-</i>

	<i>A.Chattopadhyay, &amp; Vikash).</i>
71	<i>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, &amp; Pato Kumari)</i>
72	<i>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, &amp; V.K.Sharma)</i>
73	<i>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, &amp; S.Kundu)</i>
74	<i>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)</i>
75	<i>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)</i>
76	<i>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. ( Co-author: Majhi,D.K)</i>
77	<i>Effect of irregularity on the Propagation of Torsional Surface Waves in an initially stressed anisotropic poro-elastic layer, Platinum Jubilee 75<sup>th</sup> Annual conference of the Indian Mathematical Society, Dec'27 – 30,2009, Kalasalingam University(Tamil Nadu). .(Co-author:D.K.Majhi)</i>
78	<i>Effect of porosity on the propagation of Love waves in an anisotropic porous layer over a prestressed non-homogeneous elastic half space. 5<sup>th</sup> National Conf. on Applicable Mathematics in wave Mechanics and vibrations, March 13 – 15, 2010. held in Kakatiya Univ., Warangal, (A.P.).(Co-author: A. Chattopadhyay&amp; Majhi,D.K)</i>
79	<i>Propagation of SH waves in a sandwiched self-reinforced layer with an irregularity. 5<sup>th</sup> National Conf. on Applicable Mathematics in wave Mechanics and vibrations, March 13 – 15, 2010. held in Kakatiya Univ., Warangal, (A.P.). .(Co-author: A. Chattopadhyay, A.K.Singh and S.A.Sahu)</i>
80	<i>The dispersion equation of magnetoelastic shear waves in an irregular monoclinic internal stratum. , 5<sup>th</sup> National Conf. on Applicable Mathematics in wave Mechanics and vibrations, March 13 – 15, 2010. held in Kakatiya Univ., Warangal, (A.P.). .(Co-author: A. Chattopadhyay, A.K.Singh and S.A.Sahu)</i>

81	<i>Love wave propagation in an elastic layer with void pores under rigid boundary, Proc. Of Int. Seminar on Recent Advances in Geosciences (RAG-2011)January 11 – 13, 2011,held in ISM Dhanbad).(Co-author: A. Chattopadhyay&amp; Majhi,D.K)</i>
82	<i>G type seismic waves propagation in an isotropic layer over a transversely isotropic half-space under initial stress. Proc. Of Int. Seminar on Recent Advances in Geosciences (RAG-2011)January 11 – 13, 2011,held in ISM Dhanbad).(Co-author: A. Chattopadhyay &amp; S.Kundu)</i>
83	<i>Chattopadhyay,A., Gupta, S., Singh, A. K. and Sahu S. A. “G-type Seismic wave in Low velocity Magnetoelastic Monoclinic Layer” published in the proceedings of <b>International Seminar on Recent Advances in Geosciences</b> held at Indian School of Mines, Dhanbad, India, during 11-13 January 2011, pages 256-258. ).(Co-author: A. Chattopadhyay , A.K.Singh &amp; S.A.Sahu)</i>