INTERNATIONAL(National) RESEARCH PUBLICATIONS:


6  Rayleigh Lamb Wave Propagation in visco thermo-elastic Plates, (Published), J.N. Sharma, Rajneesh Kumar, Devinder Singh, J Thermal stresses 27,645-668, USA (2004), 978-94-007-2738-0(SCI)

7  Propagation of Rayleigh Lamb wave in thermomicrostretch elastic plate, J.N. Sharma, Rajneesh Kumar, Devinder Singh. Int.J. Applied Mechanics and engg, 12, 4, 1147-1164, (Published 2007), POLAND (IF1.624)0973-9424(Scopus)

8  Some Consideration on the Rayleigh- Lamb waves propagation in Micropolar-generalized thermoelastic plates, Int.J. of Mathematical Sciences and Engg. Application, 139-156, 3, 1, (Published). 2009. INDIA (IF0.5250)2231-3478

9  Influence of Gravity in a rotating generalized thermoelastic medium with two temperatures subjected to Ramp type heating and loading. Int.J.of ultra-Scientist for Physical Sciences 327-342, 21, 2(Published) 2009.INDIA, 1573-6105

10 Hybrid Satisfiability techniques, International J. of Engineering Research and Industrial applications.323-333, 2, V. (Published) 2009.INDIA, 2448-9622


12 Image restoration using wavelet transformations, Int. J.of Ultra Scientist for Physical Sciences,623-632, 21, 2, (Published) 2009, INDIA,2319-8044

Effect of rotation in the generalized thermoelastic medium with two temperatures under hydrostatic initial stress and gravity, Praveen Ailawalia, Devinder Singh, Sunit Goel, *Int. J. of Multidiscipline Modeling in Materials and Structures* (Published) Vol.6, No.2, 2010-11, U.K (Scopus)


A problem in microstretch thermoelastic diffusive medium, Devinder Singh, Arbind Kumar, *Int. J. of Mathematical, Computational science and Engineering*. Vol: 8, No.1 2014 (Published)

Some consideration in Microstretch thermoelastic diffusive medium with mass diffusion, Devinder Singh, Arbind Kumar, *IPCSIT* vol.59, 2014, pp94-100


Published research paper entitled “Two dimensions fibre Reinforced micropolar thermoelastic problem for half space subjected to mechanical force” Praveen Ailawalia and Sunil Sachdeva, Devinder Singh, *Int. J. of Theoretical and applied Mechanics* vol.42 (2015), 1, 11-25. (SCI)


Published research paper entitled” Thermo mechanical interactions due to laser pulse in microstretch thermoelastic medium” with Rajneesh Kumar, Arbind Kumar, Devinder Singh, *Arch. Mech. 47*, 6, 1-18 Warszawa, (2015), POLAND. (SCI)


Published a research paper entitled “Interaction due to hall current and rotation in magneto-micropolar fractional order thermoelastic half space subjected to Ramp-type heating” Rajneesh
Kumar, Kulwinder Singh, Devinder Singh, Int. J. of Multidiscipline modeling in materials and structure. (2016) 12,1,2016, ISSN No. 1573-6105 (Scopus)

23 Published a research paper entitled “Internal heat source in thermoelastic micro elongated solid under Green Lindsay theory”, Praveen Ailawalia, Sunil Sachdeva, Devinder Singh, Int. Journal of theoretical and applied mechanics, sifia, and vol.46.no.2 pp 65-82. (2016),1429-2955 (SCI)

24 Published a research paper entitled “A problem on mathematical interactions due to ultra-thermal laser source in micropolar mass diffusion material by using Laplace and Fourier transform, with Arbind Kumar in Int J. of Statistics and Applied Mathematics, 43-48 1(3) (2016), 0973-1377


26 Published a research paper entitled “Elastic Plastic Stress Analysis in a Spherical Shell under internal pressure and steady state temperature” Pankaj Thakur, D.S. Pathania, Gaurav Verma, Satya Bir Singh”, Structural Integrity and Life, Vo.17. No.1, 2017 pp 39-43 (Belgrade) (Scopus)

27 Published a research paper entitled “Thermal creep analysis in NON-Homogeneous spherical Shell” Pankaj Thakur, D.S. Pathania, Gaurav Verma, Satya Bir Singh”, Structural Integrity and Life, Vo.17.No1 (Belgrade) (Scopus)


29 Published a research paper “Thermal creep stress and strain analysis in non-homogeneous shell” G.Verma, Devinder Singh, Pankaj, SB. Singh” Int J of Theoretical and applied Mechanics. 55, 1155-1165, 2017, WARSAW. (SCI)


32 Published a paper “Plain strain problem in Rotating Microstretch Thermoelastic solid with micro temperature” J theoretical and Applied Mechanics “Vol.44, 1,51-82, 2017(SCI)
33 Published a research paper “Elastodynamic interactions of laser pulse in microstretch thermoelastic mass diffusion medium with dual phase” Devinder Singh, Rajneesh Kumar, Arbind Kumar, *Micro cyst Technical* (Springer-Verlag GmbH Germany)2017. (Online) (SCI)

34 Published a research paper “Propagation of Rayleigh waves in micropolar thermoelastic half space with impedance boundary conditions” Rajneesh Kumar, Kulvinder Singh, Devinder Singh Pathania in journal *Materials Physics and Mechanics*, 35, 115-125, 2018 (Scopus)

35 Published a research paper entitled” Dynamical properties of piezoelectric microstretch solid subjected to laser and ramp type heating source” *Int.J. of mathematical Archive*, 8(12), 1-9, 2017.


37 Published a research paper entitled “Thermo mechanical Properties of Piezoelectric microstretch Solid Irradiated by Laser and Subjected to Ramp type heating source” *IUP journal of Mech.Engg.*, vol.11, 2, 38-57, 2018

38 Published research paper entitled “Mechanical disturbances in a micropolar plate due to Hall current, rotation and thermal laser heat source” with Arbind Kumar, *To Physics journal*, vol.1, 1, 28-37, 2018.

39 Published a research paper “Analysis of plane deformation in thermodiffusive microstretch and micropolar media in context of GL and LS theories of thermoelasticities” with Arbind Kumar, *Structural Integrity and Life*, Vol.18, 23-30, 2018. (Scopus)

40 Published a research paper “Regular Intuitionistic fuzzy graph structure” Int, J. for research an applied science and Engg. Technology, *RASET*, Vol.6, IV, April, (2018), 2321-9653, (IF; 6.887)

41 Published a research Paper entitled” Intuitionistic fuzzy supplement and intuitionistic fuzzy coclosed sub modules” Int.J. of latest trends in information and technology, *Vol.10,2*, pp,061-066, 2018

42 Published a research paper entitled ‘Intuitionistic Fuzzy small sub module with respect to an arbitrary intuitionistic fuzzy sub module” CiiT int j of fuzzy system, 225-229, Vol.10, No.10, 2018

43 Published, a paper “Temperature and pressure depend dependent creep stress analysis of spherical shell” with Gaurav Verma, in *Int.J. of applied mechanics and Engg*, vol.24, No1, pp105-115, 2019 (ESCI)
Published a research paper “Effect of Micro polarity on the propagation on shear waves in a piezoelectric layered structure” ISSN (Print): 2008-3505, Vol.11, No.1, J of Solid Mechanics, Rajneesh Kumar, Kulwinder Singh, 2019 (Scopus)

Published a research paper entitled “Shear wave propagation in an initially stressed piezoelectric layer imperfectly bonded over micropolar elastic half space” Rajneesh Kumar, Kulwinder Singh, Int. J. Of structural Engg and Mechanics, vol.69, no.2, 121-129, 2019 (SCI)

Published a research paper Entitled “Thermo-mechanical behavior of Microstretch Thermoelastic Medium with Micro temperatures subjected to input heat source” Arbind Kumar, Structural Integrity and Life, Vol.18, No.2, 121-127, 2018 (Scopus)

Published a research paper entitled “A study of Thermo-mechanics of magneto-micropolarthermoelastic half space” Structural Integrity and Life, Vol.18, No. 3(2018), 193-196. (Scopus)

Published research paper” Electro dynamical disturbances due to laser irradiation in microstretch thermodynamic medium with micro temperatures” Journal of Mechanics and Mechanical engineering, with Arbind Kumar, 23, 2019, 103-109 (ESCI)

Accepted a research paper “Thermo mechanical analysis of magneto micropolar solid subjected to thermal laser source, P.K. Ailawalia, Devinder Singh, Arbind Kumar” Application and applied mathematics, vol.13, 2, 2018

Accepted A paper tittled”Elastic plastic stress analysis of spherical shell under internal and external pressure “Structural Integrity and Life Vol.19, No.1, 3-7, 2019

Published a research paper “A two dimensional problem on laser pulse heating in thermoelastic micro elongated solid” Archives of thermodynamics, vol.40, 2, 69-85, 2019

Communicated a research paper entitled “Elastodynamic behavior due to mechanical forces in microstretch thermoelastic half-space with two-temperature” J structural integrity and life, 2019.

NEW COMMUNICATION LAB: A new communication lab was established with fully air conditioned in 2017 under the Headship.

CONFERENCES:

1 Presented a research paper in the National Conference on Mathematical analysis and applications held at HPU Shimla. INDIA (2000)

Presented a research paper in the National Conference on Mathematical & Statistical Techniques at TIET Patiala. (2001) INDIA

Presented a research paper in the 46th Congress of ISTAM (International Meet) held at NIT Hamirpur. (2001) INDIA


Presented a research paper in the Sixth Punjab Science Congress at SLIET Longowal (2003) INDIA


Presented a research paper “use of monte carlo” in the National Conference at IET Bhaddal. (ECSN) (2003) INDIA

Presented a research paper in National conference in Applied Mathematics at Guru Nanak dev Engg. College Ludhiana, 30 Nov.-01 Dec 2007. INDIA

Presented a research paper in the 11th Punjab Science Congress at Thapar University Patiala (2008) INDIA

Presented a research paper in the International conference held at Chitkara Engg. College Jhasala on 18th Oct.2008. INDIA

Presented a research paper in National conference in Applied Mathematics at NIT Hamirpur from 19Dec-21Dec 2008. INDIA

Presented a research paper in 12th Punjab science Congress held at P.A.U.Ludhiana in 2009. INDIA

20 Presented a research paper at Punjab Science congress held at SLIET Longowal on 7-9 Feb. 2011.

INDIA

21 Presented a research paper in second National conference in RAECT-11 held at GNDEC Ludhiana on 4-5th March 2011. INDIA

22 Presented a research paper in NCETMA-2012 (UGC Sponsored) held at D.A.V. College Jalandhar on 4-6 Feb. 2012 INDIA

23 Presented a research paper at Punjab Science congress held at Guru Nanak Dev University Amritsar 7-9 Feb. 2012. INDIA

24 Presented a research paper in the International conference recent trends in computing, mechatronics, comm. Feb. 25-26 held at OITM, Hissar 2012 INDIA

25 Presented a research paper in National Conference “Challenges In Emerging Computer Technologies” on May 16-17, 2012 at Rayat-Bahra Institute of Engineering and Bio-Technology, Mohali Campus. INDIA

26 Presented a paper in 16th Punjab Science congress on 7-9 Feb. 2013 held at Baba Farid Health University Faridkot. INDIA


28 Presented a research paper in the state seminar (UGC Sponsored) on Algebra, Number theory and their application on March 16, 2013 at SDP College Ludhiana. INDIA

29 Presented paper in third National conference (DST, TEQIP-II, Sponsored) on RAECT-13 held on 21-22 March 2013 at GNDEC Ludhiana INDIA

30 Presented a paper (By Research Scholar) in National conference on Advances in Mathematics held at NIT Hamirpur on 25-27 June 2013. INDIA

31 Presented a paper in the International conference ICMTSET-13 held in Dubai on 24-25 Sept. 2013. UAE

32 Presented a paper in an International conference ICRIME-2013 held at GNDEC Ludhiana on 24-26th Oct. 2013. INDIA

33 Presented a Paper in National Seminar on Interdisciplinary Approach in Science in emerging Scenario held at VC Bhiwani March 2014. INDIA

34 Presented a research paper in an International conference ICMP-2014 held at Chennai on March 17-18, 2014. INDIA

35 Presented a paper in International conference ICMSOT 2015 held at DAV College Jalandhar Feb 12-14. 2015. INDIA
36 Devinder Singh, Rajneesh Kumar, Arbind Kumar, published a paper in National conference CONIAPSXVII held at Rajasthan University Jaipur 2015, pp43. INDIA
37 Devinder Singh, Rajneesh Kumar, Arbind Kumar Published a paper in International conference ESTEEM held at PPIMT Hisar Pp17, 2015. INDIA
38 Devinder Singh, Rajneesh Kumar, Arbind Kumar, published a paper in NCETMS-15 held at CDLU Sirsa 2015 pp36. INDIA
39 Devinder Singh, presented a paper in the International Conference ICMCSSE-15 held in Dubai on 17-18 Oct.2015.UAE
40 Devinder Singh presented a paper in International Conference, ICM-2015 on Mathematics at Kerala University, Trivandrum, 26-28, Nov 2015. INDIA
41 Devinder Singh presented a paper in International Conference, ICFAS-2016, on Mathematics held in Kuala Lumpur (Malaysia), from 15-17 August 2016.
42 Devinder Singh presented a paper in International Conference, ICLISEM-16, on Mathematics held in Goa (INDIA) on 9th Oct 2016.
43 Devinder Singh presented a paper in International conference, ICRTEM-17 on Mathematics held in NITTTR Chandigarh on 8th Jan 2017.
44 Devinder Singh Presented a paper in Int.conferences SCAWC-17 held at GNDEC Ludhiana on March 9-11, 2017.
45 Devinder Singh presented a research paper entitled “Implication of Intuitionistic fuzziness over graph structure” on March 11, 2017 in UGC sponsored National conference on communication and computing technologies held at Apeejay college of fine arts Jalandhar.
46 Devinder Singh presented a paper in an Int.Conf on Skill and Mgt. and Applied Sciences held at SCD Govt. College Ludhiana on 24-25/4/2017.
47 Devinder Singh presented a research paper in an Int.Conference held at C-DAC Mumbai on 19 aug.2017
48 Presented a research paper in 10th international conference ICRDESHM’17 held at Chandigarh on DEC 24 2017 and was adjusted the MOST OUTSTANDING PAPER in conference.
49 Presented a paper in Int.Conf “Recent advances in fundamental and applied sciences” AIP conference proceeding 1860,020068(2017)
51 Presented a research paper in the International conference (MICSMAS-2018) held on 10-11 March 2018 at SCD Govt. College Ludhiana.
Presented a research paper in the **Int. conference** (ICSTTC-2018) held on 16-17 April **2018** at GGNKC Ludhiana. (creep analysis in a spherical shell under pressure)

Presented a research paper in the **Int. conference** (ICSTTC-2018) held on 16-17 April **2018** at GGNKC Ludhiana (On Mathematical model of Rayleigh waves in microstretch thermoelastic medium with two temperatures)

Presented a paper in the **4th International conference** on research developments in applied science, Engg. And management held at institution of engineers, Chandigarh on **3rd Nov.2018**.

**LIST OF Ph. D Students (In Progress) /Registered/Completed**

Arbind Kumar, Rajneesh Kumar (1113003,), 02 Aug.2011(Awarded)25/1/19
Kulvinder Singh, Rajneesh Kumar (1213011), 06 June 2012(Awarded 10/6/19 2019)
Sunil Sachdev and Praveen Ailawalia(1113024), 05 Aug.2011(Awarded on 22/12/17)
Kanchan PK Sharma (1413006), 30 Jan 2014(Registered)
Gaurav Verma (1213017), 02 June 2012(Awarded on 26/12/2017)
Gagandeep Kaur, PK Sharma(1313014), 01 August 2013(Submitted)2019
Vandana Bansal PK Sharma (1313013), 01 August 2013(Submitted)2019