

LIST OF PUBLICATIONS (Dr. D.S. Pathania):

- 1 Generalized thermo elastic waves in Homogeneous isotropic plates. J.N. Sharma, Rajneesh Kumar, Devinder **Singh** (Published). *J. Acoustic. Soc of America* (2000) 108,848-851, 2, USA, (IF1.50)0001-4966(SCI)
- 2 Generalized thermoelastic waves in circular crested homogeneous isotropic plate. (Published), J.N. Sharma, Devinder **Singh**, *J Thermal stresses*, 25, 1179-1193, USA (2002) (IF0.992)978-94-007-2738-0(SCI)
- 3 Propagation of Thermo elastic waves in homogeneous isotropic plates (Published). J.N. Sharma, Rajneesh Kumar, Devinder **Singh** *Indian J. Pure and applied Mathematics*, 31, 1167-1181, (2000) INDIA, 0019-5588(SCI)
- 4 Generalized thermo elastic waves in transversely isotropic plates. (Published) J.N. Sharma, Rajneesh Kumar, Devinder **Singh**, *Indian J. Pure and applied Mathematics* 34,841-852, (2003) INDIA, 0019-5588(SCI)
- 5 Propagation of thermo elastic waves in transversely isotropic plates (Published). J.N. Sharma, Devinder **Singh**, *Proceedings* (2003) 1,278-298, INDIA
- 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(ugc carelist)
- 9 Influence of Gravity in a rotating generalized thermo elastic 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(ugc carelist)
- 10 Hybrid Satisfiability techniques, *International J. of Engineering Research and Industrial applications*.323-333, 2, V. (Published) 2009.INDIA, 2448-9622(ugc carelist)
- 11 Three-Dimensional Modeling, Recognition and Reconstruction of 3D Images, *International J. of Engineering Research and Industrial applications* ,233-246,2, 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(UGC carelist)

- 12(a)** Better edge gap in grayscale image using Gaussian method, Int J.Of computational and Applied Mathematics, D.S.Pathania, S.K.Singla, Pardeep Kumar, 53-65, 5, 1, 2010, ISSN No.1819-4966, INDIA.
- 13** Effect of rotation in the generalized thermo elastic medium with two temperatures under hydrostatic initial stress and gravity, Praveen Ailawalia, Devinder Singh, Sunit Goel, and Int.J. of Multidiscipline Modeling in Materials and Structures (Published) Vol.6, No.2.2010-11, U.K(Scopus)
- 14** Slender beams under aerodynamic couplings, Devinder Singh, International J. of mathematical Sciences and Engg. Applications. 305-403, 2012. (Published), INDIA (UGC care List)
- 15** A problem in microstretch thermo elastic diffusive medium, Devinder Singh, ArbindKumar, Int.J. of Mathematical, Computational science and Engineering, Vol: 8, No.1 2014(Published)(UGC)
- 16** Some consideration in Microstretch thermo elastic diffusive medium with mass diffusion, Devinder Singh, Arbind Kumar, *IPCSIT* vol.59, 2014, pp94-100(Google scholar)
- 17** Interaction of Laser beam with Micropolar Thermo elastic Solid, Rajneesh Kumar, Arbind Kumar, Devinder Singh, Int. J.of. of Advances in Physics theories and Applications, Vol.40 pp10-15 2015(Published)
- 18** Published research paper entitled “Two dimensions fibre Reinforced micropolar thermo elastic problem for half space subjected to mechanical force “Praveen Ailawalia and Sunil Sachdeva, Devinder Singh, c” vol.42 (2015) ,1,11-25.(Google scholar)
- 19** Published research paper entitled “Two-dimensional deformation in microstretch thermo elastic half space with micro temperatures and internal heat source” PraveenAilawalia, Sunil Sachdeva, Devinder Singh, Int.J.of. Cogent Mathematics, (Online Thermal stresses) pp1-15(2015) USA.1-15(Scopus)ESCI
- 20** Published research paper entitled” Thermo mechanical interactions due to laser pulse in microstretch thermo elastic medium” with Rajneesh Kumar, Arbind Kumar, Devinder Singh ,Arch.Mech.47 ,6, 1-18 Warszawa, (2015),POLAND. (SCIE)
- 21** Published research paper entitled “Plane strain deformation in a thermo elastic micro elongated solid with internal heat source “Devinder Singh, Praveen Ailawalia, Sunil Sachdeva, Int.J.of Applied Mechanics and Engg, vol.20.N0.4 pp717-731. (2015) POLAND(SCI))
- 22** 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 thermoplastic micro elongated solid under Green Lindsay theory “, Praveen Ailawalia, Sunil Sachdeva, Devinder **Singh**, , **IPCSIT**, and vol.46.no.2 pp 65-82. **(2016),1429-2955(SCI)**
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- 25 Published a research paper entitled “Laser pulse heating in thermomicrostretch layer overluing thermoelastic half space, Parveen Ailawalia, Sunil Sachdeva, Devinder **Singh**, **Journal of Applied Physical Science International. (2017) (Scopus)**
- 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.pp39-43 (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)*
- 28 Published a research paper “Response of thermoelastic Micropolar cubic crystal” Praveen Ailawalia, Sunil Sachdeva, Devinder **Singh**, **Int.J. Of. Of Applied Mechanics and Engg.2017, Vol. 22, 1, pp 5-23. (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. *(Google Scholar)*
- 30 Published a research paper “Elastic Plastic Transition on rotating spherical shells in dependence of Compressibility Thakur, G Verma, D.S. Pathania. S.B.Singh, **Kragujevac.J.**(39) ,5-16**(2017)**. *(Scopus)*
- 31 Published a research paper “Effect of mechanical force along the interface of semi-infinite semiconducting medium and thermoelastic micropolar cubic crystal” Devinder Singh, Sunil Sachdeva, Ailawalia, <http://dx.doi.org/10.1080/23311835.2017.1347991>,**COGENT** MATH Journal. **(2017) (Scopus)**
- 32 Published a paper “Plain strain problem in Rotating Microstretch Thermo elastic solid with micro temperature” **J theoretical and Applied Mechanics** “Vol.44 ,1,51-82,**2017(Google Scholar)**

- 33 Published a research paper “Elastodynamic interactions of laser pulse in micro stretch thermo elastic 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 thermo elastic 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 micro stretch solid subjected to laser and ramp type heating source” **Int.J. of mathematical Archive-8**(12),1-9,**2017**.
- 36 Published a research paper “On Homogeneity effect in spherical shell using Seth theory “Pankaj Thakur, G. Verma, J.L. Sajic, **Structural Integrity and Life**, Vol.17,3, pp177-182,**2017**(*Scopus*)
- 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 micro polar 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 thermo diffusive micro stretch 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,061-066,42**
- 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 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)**

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

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

47 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**)

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49 Accepted a research paper “Thermo mechanical analysis of magneto micro polar solid subjected to thermal laser source, P.K. Ailawalia, DevinderSingh, ArbindKumar” **Application and applied mathematics, vol.13,2, 2018**

50 Published A paper titled” Elastic plastic stress analysis of spherical shell under internal and external pressure “**Structural Integrity and Life**Vol.19.No.1,3-7,**2019(Scopus)**

50 Published a paper “Response of thermomechanical sources in fractional order microelongated thermoelastic circular plate,vol.21 8s,2019 j. Of the Gujarat research society.ISSN.0374-8588

51 Published a research paper “A two dimensional problem on laser pulse heating in thermo elastic micro elongated solid” **Archives of thermodynamics**, vol.40, 2, 69-85, **2019(scopus)**

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53 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.**

1. **54** Published a research paper “Effects of Hall current and rotation in a fractional ordered magneto-micropolar thermoviscoelastic half- Space due to Ramp-type heat” Kulvinder Singh, Rajneesh kumar, **International Journal of Applied and Computational Mathematics.(2020) 2349-5103(SCOPUS)Springer ,UGC care List**

55 Published a research paper "Elastodynamic behavior of generalized micro stretch thermo elastic mass diffusion subjected to mechanical forces and pulsed heating" Structural integrity and life, A.Kumar, D.S.Pathania, Anjali (**Scopus**) 3,vol.20,2020

56 **Published** Intuitionistic L fuzzy module, Advances in fuzzy sets and systems, vol 25,2, 2020.

57 **Published** On decomposition of Intuitionistic fuzzy prime sub module, Notes on Intuitionistic fuzzy sets vol. 26, 2, 2020, 25-32.

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