

Department of Mathematics
National Institute of Technology
Hamirpur (H.P.)-177 005

(Updated on 17-02-2011)

Research areas of Faculty members

| S. No. | Name of the Faculty | Area of Specialization |
|--------|--|--|
| 1. | Dr. J. N. Sharma (Professor) | Mechanics of solids, Wave Propagation, Sound and Vibrations, differential equations, Numerical Analysis & Computer Programming |
| 2. | Dr. Y. D. Sharma (Professor) | Magnetohydrodynamics, Fluid Instabilities, Flow through Porous Media and Wave Propagation in Fluid-Solid Interface. |
| 3. | Dr. Sunil (Associate Professor) | Magnetohydrodynamics, Ferrohydrodynamics, Fluid stability/Instability, Flow through Porous Media. |
| 4. | Dr. Ramesh Kumar Vats (Assistant Professor) | Functional analysis (Fixed point theory) |
| 5. | Dr. Pawan Kumar Sharma (Assistant Professor) | Thermoelasticity, Viscothermoelasticity, Wave propagation |

Year wise publication data of the Department

| Year | Number of publications | Year | Number of publications | Year | Number of publications |
|-----------|------------------------|------|------------------------|--------------|------------------------|
| 1985-1986 | 6 | 1996 | 7 | 2006 | 18 |
| 1987 | 3 | 1997 | 7 | 2007 | 11 |
| 1988 | 3 | 1998 | 3 | 2008 | 18 |
| 1989 | 2 | 1999 | 7 | 2009 | 22 |
| 1990 | 6 | 2000 | 12 | 2010 | 18+ |
| 1991 | 3 | 2001 | 12 | 2011 | 08+ |
| 1992 | 3 | 2002 | 8 | 2012 | 01+ |
| 1993 | 3 | 2003 | 13 | | |
| 1994 | 4 | 2004 | 20 | | |
| 1995 | 4 | 2005 | 23 | Total | 245 |

Year wise publication data of the faculty members

| Year | | | | | | Number of publications |
|--------------|------------|-----------|------------|-----------|-----------|------------------------|
| | JNS | YDS | Sunil | RKV | PKS | |
| 1985-1986 | 6 | - | - | - | - | 6 |
| 1987 | 3 | - | - | - | - | 3 |
| 1988 | 3 | - | - | - | - | 3 |
| 1989 | 1 | 1 | - | - | - | 2 |
| 1990 | 4 | 2 | - | - | - | 6 |
| 1991 | 2 | 1 | - | - | - | 3 |
| 1992 | 1 | - | 2 | - | - | 3 |
| 1993 | 2 | - | 1 | - | - | 3 |
| 1994 | - | - | 4 | - | - | 4 |
| 1995 | 1 | - | 3 | - | - | 4 |
| 1996 | 3 | 2** | 4 | - | - | 7 |
| 1997 | 3 | - | 4 | - | - | 7 |
| 1998 | - | - | 3 | - | - | 3 |
| 1999 | 1 | - | 6 | - | - | 7 |
| 2000 | 5 | - | 7 | - | - | 12 |
| 2001 | 4 | - | 7 | 1 | 1* | 12 |
| 2002 | 2 | 1** | 5 | 1 | 1* | 8 |
| 2003 | 8 | 1** | 4 | 1 | 1* | 13 |
| 2004 | 11 | - | 9 | - | 2* | 20 |
| 2005 | 7 | 1** | 14 | 2 | - | 23 |
| 2006 | 8 | - | 6 | 4 | - | 18 |
| 2007 | 4 | - | 4 | 3 | - | 11 |
| 2008 | 8 | 2* | 10 | - | 2* | 18 |
| 2009 | 14 | 2* | 6 | 2 | 1* | 22 |
| 2010 | 10 | | 5 | 3 | 3* | 18+ |
| 2011 | 05 | | 3 | | 2* | 08+ |
| 2012 | | | 1 | | | 01+ |
| Total | 116 | 13 | 108 | 17 | 12 | 245 |

** Collaboration with Prof. J.N. Sharma / Dr. Sunil.

List of research publications in Journals:

| Year | No. | Authors: "Title of the Research Paper". "Name of the Journal"(Country), Vol. No., Page Nos. |
|------|-----|---|
| 1985 | 1. | H. Singh and J.N. Sharma : "Generalized thermoelastic waves in transversely isotropic media". Journal of Acoustical Society of America, 77 , 1046-1053 (1985). |
| | 2. | J.N. Sharma and H. Singh: "Thermoelastic surface waves in a transversely isotropic half space with thermal relaxation". Indian Journal of Pure and Applied Mathematics, 15 , 1202-1219 (1985). |
| 1986 | 3. | J.N. Sharma : "Instantaneous heat source in temperature rate dependent thermoelasticity". Proceedings of Indian National Science Academy, 52 A , 1375-1383 (1986). |
| | 4. | J.N. Sharma and R.S. Sidhu: "On the propagation of plane harmonic waves in anisotropic thermoelasticity". International Journal of Engineering Sciences, 24 , 1511-1516 (1986). |
| | 5. | J.N. Sharma : "Transient generalized thermoelastic waves in a transversely isotropic half space". Bulletin of Polish Academy of Science, Technical Science, 34 , 631-646 (1986). |
| | 6. | J.N. Sharma : "On the low and high frequency behaviour of generalized thermoelastic waves". Archives of Mechanics, 38 , 665-673 (1986). |
| 1987 | 7. | J.N. Sharma and H. Singh: "Generalized thermoelastic waves in crystals". Proceedings of Indian National Science Academy, 53 A , 84-90 (1987). |
| | 8. | J.N. Sharma : "Transient generalized thermoelastic waves in a transversely isotropic medium with cylindrical hole". International Journal of Engineering Sciences, 25 , 465-471 (1987). |
| | 9. | J.N. Sharma : "Some considerations on generalized thermoelasticity". International Journal of Engineering Sciences, 25 , 1387-1392 (1987). |
| 1988 | 10. | J.N. Sharma : "Reflection of thermoelastic waves from insulated stress free boundary of a anisotropic half space". Indian Journal of Pure and Applied Mathematics, 19 , 294-304 (1988). |
| | 11. | J.N. Sharma and D. Chand: "Transient generalized magneto-thermoelastic waves in half space International". Journal of Engineering Sciences, 26 , 951-958 (1988). |
| | 12. | D. Chand and J.N. Sharma : "Transient magneto-thermoelastic in a half space with thermal relaxations". Indian Journal of Pure and Applied Mathematics, 19 , 1227-1238 (1988). |
| 1989 | 13. | J.N. Sharma and H. Singh: "Generalized thermoelastic waves in anisotropic media". Journal of Acoustical Society of America, 85 , 1405-1413 (1989). |
| | 14. | R. C. Sharma and Y.D. Sharma : "Taylor instability of partially ionized plasma in porous medium in the presence of variable magnetic field". Astrophysics and Space Science, (Holland), 155 , 295-300 (1989).. |
| 1990 | 15. | J.N. Sharma , D. Chand and S.P. Sud: "Transient generalized magneto-thermoelastic waves in a rotating half space". International Journal of Engineering Sciences, 28 , 557-556 (1990). |
| | 16. | J.N. Sharma and H. Singh: "Propagation of generalized thermo elastic waves in cubic crystals". |

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| | | Archives of Mechanics, 42 , 19-30 (1990). |
| | 17. | J.N. Sharma and H. Singh: "Thermoelastic Rayleigh waves in a homogeneous transversely isotropic media". International Journal of Sciences and Engineering, 8 , 19-29 (1990). |
| | 18. | J.N. Sharma , D. Chand and S.P. Sud: "A thermoelastic problem for an aeotropic medium with a cylindrical hole". Indian Journal of Theoretical Physics, 38 , 305-206 (1990). |
| | 19. | R. C. Sharma and Y.D. Sharma : "Magneto-thermosolutal convection in a viscoelastic fluid in porous medium". Acta Physica Hungarica, (Hungary), 67 , 203–209 (1990). |
| | 20. | R. C. Sharma and Y.D. Sharma : "Thermal instability in a Maxwellian viscoelastic fluid in porous medium". Journal of Mathematical and Physical Sciences, 24 , 115–122 (1990). |
| 1991 | 21. | D. Chand and J.N. Sharma : "Temperature-rate-dependent thermoelastic waves in a homogeneous plate due to suddenly punched hole". Journal of Acoustical Society of America, 90 , 2530- 2535 (1991). |
| | 22. | J.N. Sharma and D. Chand: "Distribution of temperature and stresses in an elastic plate due to a suddenly punched hole". Journal of Thermal Stresses, 14 , 455- 464 (1991). |
| | 23. | R. C. Sharma and Y. D. Sharma : "Taylor instability in the presence of variable magnetic field and suspended particles in porous media". "Jñānābha", 23 , 19–25 (1991). |
| 1992 | 24. | J.N. Sharma and D. Chand: "On the axisymmetric and plane strain problems of generalized thermoelasticity". International Journal of Engineering Sciences, 30 , 223-230 (1992). |
| | 25. | R. C. Sharma and Sunil : "Thermosolutal instability of a partially-ionized Hall plasma in porous medium". "Astrophysics and Space Science" (Belgium), 194 , 303–311 (1992). |
| | 26. | R. C. Sharma and Sunil : "Rayleigh–Taylor instability of a partially ionized plasma in a porous medium in presence of a variable magnetic field". "Zeitschrift für Naturforschung" (Germany), 47a , 1227–1231 (1992). |
| 1993 | 27. | D. Chand and J.N. Sharma : "Magneto-thermoelasticity in a rotating half space with mechanical loads". Proceedings of Indian National Science Academy, 59 A , 409-428 (1993). |
| | 28. | J.N. Sharma and D. Chand: "Propagation of waves in rotating magneto-thermoelastic media". Archives of Mechanics, 45 , 387-403 (1993). |
| | 29. | R. C. Sharma and Sunil : "Thermal instability of compressible Hall plasma in the presence of suspended particles". "Ganita" (India), 44(1) , 1–11 (1993). |
| 1994 | 30. | R.C. Sharma and Sunil : "Thermal instability of Oldroydian viscoelastic fluid with suspended particles in hydromagnetics in porous medium". "Polymer–Plastics Technology and Engineering" (U.S.A.), 33(3) , 323–339 (1994). |
| | 31. | R.C. Sharma and Sunil : "Compressibility and collisional effects on thermal instability of a partially – ionized Hall plasma in porous medium". "Indian Journal of Physics" (India), 68B(3) , 255–266 (1994). |

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| | 32. | R.C. Sharma and Sunil : "Finite Larmor radius effect on thermosolutal instability of plasma in porous medium". "Czechoslovak Journal of Physics" (Czechoslovakia), 44 (10) , 927–936 (1994). |
| | 33. | Sunil : "Thermosolutal hydromagnetics instability of compressible and partially ionized plasma in porous medium". "Archives of Mechanics" (Poland), 46(6) , 819–828 (1994). |
| 1995 | 34. | J.N. Sharma : "State space approach to generalized thermoelasticity". Indian Journal of Pure and Applied Mathematics, 27 , 1211-1223 (1995). |
| | 35. | Sunil : "Finite Larmor radius and compressibility effects on thermosolutal instability of a plasma in porous medium". "Indian Journal of Physics" (India), 69B(3) , 249–260 (1995). |
| | 36. | R. C. Sharma and Sunil : "Thermal instability of compressible finite Larmor radius, Hall plasma in porous medium". "Physics of Plasma" (U.S.A.), 2(6) , 1886–1892 (1995). Erratum : R. C. Sharma and Sunil : "Thermal instability of compressible finite Larmor radius, Hall plasma in porous medium". ["Physics of Plasma", 2(6) , 1886 (1995).] "Physics of Plasma" (U.S.A.), 2(12) , 4665 (1995). |
| | 37. | Sunil : "Thermal instability of an FLR plasma in porous medium". "Indian Journal of Pure and Applied Mathematics" (India), 26(10) , 1011–1019 (1995). |
| 1996 | 38. | J.N. Sharma and Dayal Chand: "Vibrations in a transversely isotropic plate due to sudden punching of hole". Indian J. Pure Appl. Math. 27 , 217-226 (1996). |
| | 39. | J.N. Sharma and R.L. Sharma: "On spherically symmetric generalized thermoelastic waves in a transversely isotropic medium". Indian J. Pure Appl. Math, 27 , 1151- 1165 (1996). |
| | 40. | J.N. Sharma and Vinod Kumar: "On axisymmetric problem of generalized anisotropic thermoelasticity". J.Thermal Stresses, 19 , 781-794 (1996). |
| | 41. | R. C. Sharma and Sunil : "Thermal instability of compressible finite–Larmor–radius Hall plasma in a porous medium". "Journal of Plasma Physics" (Great Britain), 55(1) , 35–45 (1996). |
| | 42. | Y.D. Sharma and Sunil : "Compressibility and Hall effects on thermosolutal instability of partially ionized Hall plasma in a porous medium". "Polymer–Plastics Technology and Engineering" (U.S.A.), 35(1) , 169–186 (1996). |
| | 43. | Sunil and Y.D. Sharma : "Rayleigh–Taylor instability of a partially ionized rotating plasma in the presence of a variable horizontal magnetic field in porous medium". "Polymer–Plastics Technology and Engineering" (U.S.A.), 35(2) , 221–231 (1996). |
| | 44. | Sunil , R. C. Sharma and T. Chand: "Combined effect of magnetic field and rotation on thermosolutal instability of a compressible fluid in porous medium". "Polymer–Plastics Technology and Engineering" (U.S.A.), 35(3) , 377–391 (1996). |
| 1997 | 45. | J.N. Sharma : "An alternate state approach to generalized thermoelasticity". J. Thermal Stresses, 27 , 115-127 (1997). |

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| | 46. | J.N. Sharma: "Temperature distribution in a generalized thermoelastic solid due to heat sources". Indian J. Pure Appl. Math, 28 , 1303-1316 (1997). |
| | 47. | J.N. Sharma and Vinod Kumar: "Plain strain problems of transversely isotropic media". J. Thermal Stresses, 20 , 463-476 (1997). |
| | 48. | Sunil and T. Chand: "Rayleigh–Taylor instability of a plasma in presence of a variable magnetic field and suspended particles in porous medium". "Indian Journal of Physics" (India), 71B(1) , 95–105 (1997). |
| | 49. | R. C. Sharma, T. Chand and Sunil : "Thermal instability of a rotating fluid in porous medium". "Indian Journal of Theoretical Physics" (India), 45(3) , 203–211 (1997). |
| | 50. | Sunil : "Kelvin Helmholtz instability of a partially ionized plasma in porous medium". "Polymer–Plastics Technology and Engineering" (U.S.A.), 36(6) , 945–961 (1997). |
| | 51. | Sunil : "Importance of Mathematics in Engineering Science". "The Journal of Engineering Education" (India), 31-35, July-September (1997). |
| 1998 | 52. | Sunil : "Rayleigh–Taylor instability of a fluid particle mixture in porous medium in the presence of a variable magnetic field and uniform rotation". "Indian Journal of Theoretical Physics" (India), 46(1) , 79–89 (1998). |
| | 53. | R. C. Sharma, Sunil and Suresh Chand: "Thermosolutal convection in Rivlin–Ericksen fluid in porous medium in hydromagnetics". "Applied Mechanics and Engineering" (Poland), 3(1) , 171–180 (1998). |
| | 54. | R. C. Sharma, Sunil and Suresh Chand: "Thermosolutal convection in Rivlin–Ericksen rotating fluid in porous medium". "Indian Journal of Pure and Applied Mathematics" (India), 29(4) , 433–440 (1998). |
| 1999 | 55. | J.N. Sharma and R.S. Chauhan: "On the problem of body forces and heat sources in thermoelasticity without energy dissipation." Indian J. Pure Appl. Math., 30 , 595-610 (1999). |
| | 56. | Sunil : "Transport of vorticity in fluid in the presence of suspended magnetic particles in porous medium". "Applied Mechanics and Engineering" (Poland), 4(1) , 35–43 (1999). |
| | 57. | Sunil : "Finite Larmor radius effect on thermosolutal instability of compressible Hall plasma in porous medium". "Physics of Plasmas" (U.S.A.), 6(1) , 50–56 (1999). |
| | 58. | R. C. Sharma, Sunil and Rajender Singh Chandel: "Thermal convection in Walters' viscoelastic fluid B' permeated with suspended particles in porous medium". "Studia Geotechnica et Mechanica" (Poland), XXI(1–2) , 3–14 (1999). |
| | 59. | R. C. Sharma, Sunil and Suresh Chand: "The instability of streaming Walters' viscoelastic fluid B' in porous medium". "Czechoslovak Journal of Physics" (Czechoslovakia), 49(2) , 189–195 (1999). |
| | 60. | R. C. Sharma, Sunil and Suresh Chand: "Thermosolutal instability of Walters' rotating fluid (model B') in porous medium". |

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| | | "Archives of Mechanics" (Poland), 51(2) , 181–191 (1999). |
| | 61. | R. C. Sharma, Sunil and Suresh Chand: "The instability of streaming Rivlin–Ericksen viscoelastic fluid in porous medium". "Proceedings of the National Academy of Sciences. India" (India), 69(A), IV , 437-445 (1999). |
| 2000 | 62. | J.N. Sharma , Vinod Kumar and S.P. Sud: "Plane harmonic waves in orthorhombic thermoelastic materials." J. Acoust. Soc. Am., 107 , 293-305 (2000). |
| | 63. | J.N. Sharma , Ranbir Singh and Rajneesh Kumar: "Time Harmonic sources in a generalized thermoelastic materials." J. Thermal Stresses, 23 , 657-674 (2000). |
| | 64. | J.N. Sharma , Devinder Singh and Rajneesh Kumar: "Propagation of thermoelastic Waves in homogeneous isotropic plates", Indian J. Pure Appl. Math., 31 , 1167-1181 (2000). |
| | 65. | J.N. Sharma , Devinder Singh and Rajneesh Kumar: "Generalized thermoelastic waves in homogeneous isotropic plates". J. Acoust. Soc. Am., 108 , 848-851 (2000). |
| | 66. | J.N. Sharma and Munish Kumar: "Plane harmonic waves in Piezo-thermoelastic Materials," J. Engg. & Mat. Sci., 7 , 434-442 (2000). |
| | 67. | R. C. Sharma, Sunil and Suresh Chand: "Hall effect on thermal instability of Rivlin–Ericksen fluid". "Indian Journal of Pure and Applied Mathematics" (India), 31(1) , 49–59 (2000). |
| | 68. | R. C. Sharma, Sunil and Suresh Chand: "Hall effect on thermal instability of Walters' (model B') fluid". "Indian Journal of Theoretical Physics" (India), 48(1) , 81-92 (2000). |
| | 69. | Sunil , R. C. Sharma and Rajender Singh Chandel: "Stability of stratified Rivlin-Ericksen-particle mixture in hydromagnetics in porous medium". "Ganita" (India), 51(2) , 179-185 (2000). |
| | 70. | Sunil and Pawan Kumar: "Hall effect on thermal instability of Walters' (model B') fluid in porous medium". "Applied Mechanics and Engineering" (Poland), 5(3) , 655-671 (2000). |
| | 71. | R.C. Sharma, Sunil and Mohinder Pal: "On couple-stress fluid heated from below in porous medium in presence of rotation". "Applied Mechanics and Engineering" (Poland), 5(4) , 883-896 (2000). |
| | 72. | Sunil , R. C. Sharma and Suresh Chand: "Thermosolutal convection in Walters' (Model B') fluid in porous medium in hydromagnetics". "Studia Geotechnica et Mechanica" (Poland), XXII(3-4) , 3-14 (2000). |
| | 73. | Sunil and Pradeep Singh: "Thermal instability of a porous medium with relaxation and inertia in the presence of Hall effects". "Archive of Applied Mechanics" (Germany), 70(8/9) , 649-658 (2000). |
| 2001 | 74. | J.N. Sharma and R. Singh: "Mechanical and thermal sources in generalized thermo elastic media". |

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| | | Journal of Thermal Stresses, 24 , 651-676 (2001). |
| | 75. | J.N. Sharma : "Three-dimensional vibration analysis of a homogeneous transversely isotropic thermo elastic cylindrical panel". Journal of Acoustical Society of America, 110 , 254-259 (2001). |
| | 76. | J.N. Sharma : "On the propagation of thermoelastic waves in homogeneous isotropic plates". Indian Journal of Pure and Applied Mathematics, 32 , 1329-1341 (2001). |
| | 77. | J.N. Sharma and P.K. Sharma : "On the transient waves in a thermoelastic half space". International Journal of Applied Mechanics and Engineering, 6 , 923-946 (2001). |
| | 78. | Sunil : "Thermosolutal instability of compressible finite Larmor radius Hall plasma in porous medium". "Journal of Porous Media" (U.S.A.), 4(1) , 55-67 (2001). |
| | 79. | R.C. Sharma, Sunil and Mohinder Pal: "Thermosolutal convection in Rivlin–Ericksen rotating fluid in porous medium in hydromagnetics". "Indian Journal of Pure and Applied Mathematics" (India), 32(1) , 143-156 (2001). |
| | 80. | R.C. Sharma, Sunil and Suresh Chand: "Kelvin-Helmholtz instability of Rivlin–Ericksen viscoelastic fluid in porous medium". "Studia Universitatis 'Babeş-Bolyai' Mathematica" (Rumania), XLVI (3) , 111-118 (2001). |
| | 81. | R.C. Sharma, Sunil and Mohinder Pal: "On superposed couple-stress fluid in a porous medium". "Studia Geotechnica Et Mechanica" (Poland), 23(3-4) , 55-66 (2001). |
| | 82. | Sunil , R.C. Sharma and Mohinder Pal: "Hall effect on thermosolutal instability of a Rivlin-Ericksen fluid in porous medium". "Journal of Non-Equilibrium Thermodynamics" (Germany), 26(4) , 373-386 (2001). |
| | 83. | Sunil , R.C. Sharma and Mohinder Pal: "Thermal convection in Rivlin-Ericksen fluid permeated with suspended particles in porous medium". "Romanian Journal of Physics" (Romania), 46 (3-4) , 119–128 (2001). |
| | 84. | Sunil , R.C. Sharma and Mohinder Pal: "Hall effect on thermosolutal instability of Walters' (model B') fluid in porous medium". "Archives of Mechanics" (Poland), 53(6) , 677–690 (2001). |
| | 85. | Ramesh Kumar Vats : "Common fixed point for four mappings satisfying rational inequality". Journal of Indian Mathematical Soc., 68 , 59–64 (2001). |
| 2002 | 86. | J.N. Sharma and D. Singh: "Crested waves in homogeneous thermo-elastic plates". Journal of Thermal Stresses, 25 , 1179-1193 (2002). |
| | 87. | J.N. Sharma and P.K. Sharma : "Free Vibration Analysis of homogeneous transversely isotropic thermoelastic cylindrical panel". Journal of Thermal Stresses, 24 , 169-182 (2002). |
| | 88. | Sunil , R. C. Sharma and Rajender Singh Chandel: "Transport of vorticity in couple-stress fluid in the presence of suspended magnetic particles in porous medium". "Indian Journal of Theoretical Physics" (India) 50(1) , 45–54 (2002). |

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| | 89. | Sunil, R. C. Sharma and Mohinder Pal: "On couple-stress fluid heated from below in porous medium in presence of magnetic field and rotation". "Journal of Porous Media" (U.S.A.), 5(2) , 149–158 (2002). |
| | 90. | R.C. Sharma, Sunil, Y.D. Sharma and Rajender Singh Chandel: "On couple-stress fluid permeated with suspended particles heated from below" "Archives of Mechanics" (Poland), 54(4) , 287–298 (2002). |
| | 91. | Sunil, R. C. Sharma and Rajender Singh Chandel: "On superposed couple-stress fluids in porous medium in hydromagnetics". "Zeitschrift für Naturforschung" (Germany), 57(a) , 955–960 (2002). |
| | 92. | Sunil, R.C. Sharma and Mohinder Pal: "Thermosolutal convection in Walters' (model B') rotating fluid in porous medium in hydromagnetics". "Jñānābha" (India), 31/32 , 137-150 (2002). |
| | 93. | Ramesh Kumar Vats: "Weakly compatible maps in metric spaces". "Journal of Indian Mathematical Soc." 69 , 139-143 (2002). |
| 2003 | 94. | J.N. Sharma, D. Singh and R. Kumar: "Generalized thermoelastic waves in transversely isotropic plates". Indian Journal of Pure and Applied Mathematics, 34 , 841-852 (2003). |
| | 95. | J.N. Sharma, V. Kumar and D. Chand: "Reflection of generalized thermoelastic waves from the boundary of a half space". Journal of Thermal Stresses, 26 , 925-942 (2003). |
| | 96. | J.N. Sharma and V. Pathania: "Thermoelastic waves in a plate bordered with layers of inviscid liquid". Journal of Thermal Stresses, 26 , 149-166 (2003). |
| | 97. | J.N. Sharma, V. Pathania and S. K. Gupta: "Thermoelastic Lamb waves in a transversely isotropic plate with layers of inviscid liquid". International Journal of Engineering Sciences, 41 , 1219-1237 (2003). |
| | 98. | J.N. Sharma and P.K. Sharma: "On the wave propagation in generalized thermoelastic media". International Journal of Applied Mechanics and Engineering, 8, No. 2 , 299-316 (2003). |
| | 99. | J.N. Sharma and V. Pathania: "Generalized thermoelastic Lamb waves in a plate with layers of inviscid liquid". Journal of Sound Vibration, 268 , 897-916 (2003). |
| | 100. | J.N. Sharma and M. Pal: "Propagation of Lamb waves in transversely isotropic piezoelectric elastic plate". Indian Journal of Engineering & Material Sciences, 10 , 371-380 (2003). |
| | 101. | J.N. Sharma and V. Pathania: "Three-dimensional vibration analysis of transversely isotropic piezoelectric cylindrical panel". Acta Mechanica, 166 , 119- 129 (2003). |
| | 102. | Sunil, Pavan Kumar Bharti and R. C. Sharma: "On Bénard convection in porous medium in presence of throughflow and rotation in hydromagnetics". "Archives of Mechanics" (Poland), 55(3) , 257–274 (2003). |

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| | 103. | Sunil, Divya, R. C. Sharma and Veena Sharma: "Compressible couple-stress fluid permeated with suspended particles heated and soluted from below in porous medium". "Indian Journal of Pure and Applied Physics" (India), 41(8) , 602–611 (2003). |
| | 104. | Sunil, R. C. Sharma and Rajender Singh Chandel: "Stability of superposed couple-stress fluids in presence of suspended particles in porous medium". "International Journal of Applied Mechanics and Engineering" (Poland), 8(4) , 693-704 (2003). |
| | 105. | Sunil, Y.D. Sharma, P. K. Bharti and R.C. Sharma: "Kelvin-Helmholtz instability of Walters' (model B') viscoelastic fluid in porous medium in hydromagnetics". "Studia Geotechnica Et Mechanica" (Poland), 25(3-4) , 53-63 (2003). |
| | 106. | R. Chugh, S. Kumar and Ramesh Kumar Vats: "A generalization of Banach contraction principle in probabilistic D-metric spaces-I". Math. Sc. Research Journal (USA), 7(2) , 41-46 (2003). |
| 2004 | 107. | J.N. Sharma and M. Pal: "Propagation of Lamb waves in transversely isotropic Piezo-thermoelastic plate". Journal of Sound and Vibrations, 270 , 587-610 (2004). |
| | 108. | J.N. Sharma and M. Pal: "Plane harmonic waves in transversely isotropic piezo-thermoelastic materials". International Journal of Applied Mechanics and Engineering, 9 , 749-769 (2004). |
| | 109. | J.N. Sharma and R. Kumar: "Asymptotics of wave motion in transversely isotropic plates". Journal of Sound and Vibrations, 274 , 747-759 (2004). |
| | 110. | J.N. Sharma, P.K. Sharma and R.L. Sharma: "Behavior of thermoelastic thick plate under lateral loads". Journal of Thermal Stresses, 27 , 171-191 (2004). |
| | 111. | J.N. Sharma, V. Pathania and S. K. Gupta: "Circular crested waves in anisotropic thermoelastic plates bordered with inviscid liquid". International Journal of Engineering Sciences, 42 , 99-121 (2004). |
| | 112. | J.N. Sharma and M. Pal: "Rayleigh-Lamb waves in magneto-thermoelastic homogeneous isotropic plates". International Journal of Engineering Sciences, 42 , 137-155 (2004). |
| | 113. | J.N. Sharma, M. Pal and D. Chand: "Thermoelastic Lamb waves in electrically shorted transversely isotropic piezoelectric plates". Journal of Thermal Stresses, 27 , 33- 58 (2004). |
| | 114. | J.N. Sharma, D. Singh and R. Kumar: " Propagation of generalized visco-thermoelastic Rayleigh-Lamb waves in homogeneous isotropic plates". Journal of Thermal Stresses, 27 , 645-668 (2004). |
| | 115. | J.N. Sharma and V. Pathania: "Generalized thermoelastic waves in anisotropic plates sandwiched between liquid layers". Journal of Sound and Vibrations, 278 , 343- 371 (2004). |
| | 116. | J.N. Sharma, M. Pal and D. Chand: "Three-dimensional vibration analysis of a piezothermoelastic cylindrical panel". International Journal of Thermal Sciences, 42 , 1655-1673 (2004). |

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| | 117. | J.N. Sharma, P.K. Sharma and S.K. Gupta: "Steady state response of moving loads in thermoelastic media". Journal of Thermal Stresses, 27 , 931-952 (2004). |
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