BIBLIOGRAPHY

Abbas, I. A. (2011). A two-dimensional problem for a fibre-reinforced anisotropic thermoelastic half-space with energy dissipation. *Sadhana*, 36(3):411–423.

Abbas, I. A. (2014). A problem on functional graded material under fractional order theory of thermoelasticity. *Theor. Appl. Fract. Mech.*, 74:18–22.

Abbas, I. A. (2015). Generalized thermoelastic interaction in functional graded material with fractional order three-phase lag heat transfer. *J. Cent. South Univ.*, 22(5):1606–1613.

Abbas, I. A. and Abd-alla, A. N. (2008). Effects of thermal relaxations on thermoelastic interactions in an infinite orthotropic elastic medium with a cylindrical cavity. *Arch. Appl. Mech.*, 78(4):283–293.

Abbas, I. A. and Othman, M. I. A. (2009). Effect of rotation on thermoelastic waves with Green-Naghdi theory in a homogeneous isotropic hollow cylinder. *Int. J. Ind. Math.*, 1(2):121–134.

Abouelregal, A. E. (2011). Generalized thermoelasticity for an isotropic solid sphere in dual-phase-lag of heat transfer with surface heat flux. *Int. J. Comput. Methods Eng. Sci. Mech.*, 12(2):96–105.

Abouelregal, A. E. and Abo-Dahab, S. M. (2015). Study of the dual phase lag model of thermoelasticity for a half-space problem with rigidly fixed surface in the presence of a thermal shock. *J. Comput. Theor. Nanosci.*, 12(1):38–45.

Achenbach, J. D. (1968). The influence of heat conduction on propagating stress jumps. *J. Mech. Phys. Solids*, 16(4):273–282.

Agarwal, V. K. (1978). On surface waves in generalized thermoelasticity. *J. Elast.*, 8(2):171–177.

Agarwal, V. K. (1979). On plane waves in generalized thermoelasticity. *Acta Mech.*, 31(3):185–198.

Ahmadi, G. (1974). Heat conduction in solids with random initial conditions. *J. Heat Transf.*, 96(4):474–477.

Ahmadi, G. (1978). A perturbation method for studying heat conduction in solid with

random conductivity. *J. Appl. Mech.*, 45:933–934.

Akbarzadeh, A., Fu, J., and Chen, Z. (2014). Three-phase-lag heat conduction in a functionally graded hollow cylinder. *Trans. Can. Soc. Mech. Eng.*, 38(1):155–171.

Anisimov, S. I., Kapeliovich, B. L., and Perelman, T. L. (1974). Electron emission from metal surfaces exposed to ultrashort laser pulses. *Zh. Eksp. Teor. Fiz*, 66(2):375–377.

Anwar, M. N. and Sherief, H. H. (1988). State space approach to generalized thermoelasticity. *J. Therm. Stresses*, 11(4):353–365.

Bagri, A. and Eslami, M. R. (2007a). Analysis of thermoelastic waves in functionally graded hollow spheres based on the Green-Lindsay theory. *J. Therm. Stresses*, 30(12):1175–1193.

Bagri, A. and Eslami, M. R. (2007b). A unified generalized thermoelasticity formulation; application to thick functionally graded cylinders. *J. Therm. Stresses*, 30(9-10):911–930.

Balta, F. and Şuhubi, E. S. (1977). Theory of nonlocal generalised thermoelasticity. *Int. J. Eng. Sci.*, 15(9-10):579–588.

Baumeister, K. J. and Hamill, T. D. (1969). Hyperbolic heat-conduction equation-A solution for the semi-infinite body problem. *J. Heat Transf.*, 91(4):543–548.

Baumeister, K. J. and Hamill, T. D. (1971). Discussion: "Hyperbolic heat-conduction equation-A solution for the semi-infinite body problem"(Baumeister, K. J., and Hamill, T. D., 1969, ASME J. Heat Transfer, 91, pp. 543–548). *J. Heat Transf.*, 93(1):126–127.

Beevers, C. E. and Bree, J. (1975). A note on wave reflection problems in linear thermoelasticity. *J Math Phys Sci.*, 9:355–362.

Bellomo, N. and Flandoli, F. (1989). Stochastic partial differential equations in continuum physics-On the foundations of the stochastic interpolation method for ITO's type equations. *Math. Comput. Simul.*, 31(1-2):3–17.

Biot, M. A. (1956). Thermoelasticity and irreversible thermodynamics. *J. Appl. Phys.*, 27(3):240–253.

Boley, B. and Weiner, J. H. (1960). *Theory of thermal stresses*. John Wiley and Sons, New York.

Boschi, E. (1972). Plane waves in a new theory of thermoelasticity. *Lett. Nuovo Cimento (1971-1985)*, 5(2):192–196.

Boschi, E. and Ieşan, D. (1973). A generalized theory of linear micropolar thermoelasticity. *Meccanica*, 8(3):154–157.

Brorson, S. D., Fujimoto, J. G., and Ippen, E. P. (1987). Femtosecond electronic heat-

transport dynamics in thin gold films. *Phys. Rev. Lett.*, 59(17):1962–1965.

Cao, B. Y. and Guo, Z. Y. (2007). Equation of motion of a phonon gas and non-Fourier heat conduction. *J. Appl. Phys.*, 102(5):053503–1–053503–6.

Carbonaro, B. and Ignaczak, J. (1987). Some theorems in temperature-rate-dependent thermoelasticity for unbounded domains. *J. Therm. Stresses*, 10(3):193–220.

Carlson, D. E. (1973). Linear thermoelasticity. In *Linear theories of elasticity and thermoelasticity*, pages 297–345. Springer.

Cattaneo, C. (1958). A form of heat-conduction equations which eliminates the paradox of instantaneous propagation. *Compt. Rend.*, 247:431.

Chadwick, P. (1960). *Progress in solid mechanics*, volume I. North Holland Publishing Co.

Chadwick, P. (1962). On the propagation of thermoelastic disturbances in thin plates and rods. *J. Mech. Phys. Solids*, 10(2):99–109.

Chadwick, P. and Sneddon, I. N. (1958). Plane waves in an elastic solid conducting heat. *J. Mech. Phys. Solids*, 6(3):223–230.

Chan, S. H., Low, M. J. D., and Mueller, W. K. (1971). Hyperbolic heat conduction in catalytic supported crystallites. *AIChE J.*, 17(6):1499–1501.

Chand, D., Sharma, J. N., and Sud, S. P. (1990). Transient generalised magnetothermoelastic waves in a rotating half-space. *Int. J. Eng. Sci.*, 28(6):547–556.

Chandrasekharaiah, D. S. (1986a). Heat-flux dependent micropolar thermoelasticity. *Int. J. Eng. Sci.*, 24(8):1389–1395.

Chandrasekharaiah, D. S. (1986b). Thermoelasticity with second sound: A review. *Appl. Mech. Rev.*, 39(3):355–376.

Chandrasekharaiah, D. S. (1987a). Complete solutions in the theory of elastic materials with voids. *Q. J. Mech. Appl. Math.*, 40(3):401–414.

Chandrasekharaiah, D. S. (1987b). A uniqueness theorem in the theory of elastic materials with voids. *J. Elast.*, 18(2):173–179.

Chandrasekharaiah, D. S. (1988). A generalized linear thermoelasticity theory for piezoelectric media. *Acta Mech.*, 71(1-4):39–49.

Chandrasekharaiah, D. S. (1989). Complete solutions in the theory of elastic materials with voids–II. *Q. J. Mech. Appl. Math.*, 42(1):41–54.

Chandrasekharaiah, D. S. (1996a). A note on the uniqueness of solution in the linear theory of thermoelasticity without energy dissipation. *J. Elast.*, 43(3):279–283.

Chandrasekharaiah, D. S. (1996b). One-dimensional wave propagation in the linear theory of thermoelasticity without energy dissipation. *J. Therm. Stresses*, 19:695–

710.

Chandrasekharaiah, D. S. (1996c). Thermoelastic plane waves without energy dissipation. *Mech. Res. Commun.*, 5(23):549–555.

Chandrasekharaiah, D. S. (1996d). A uniqueness theorem in the theory of thermoelasticity without energy dissipation. *J. Therm. Stresses*, 19(3):267–272.

Chandrasekharaiah, D. S. (1998). Hyperbolic thermoelasticity: A review of recent literature. *Appl. Mech. Rev.*, 51(12):705–729.

Chandrasekharaiah, D. S. and Murthy, H. N. (1991). Temperature-rate-dependent thermoelastic interactions due to a line heat source. *Acta Mech.*, 89(1-4):1–12.

Chandrasekharaiah, D. S. and Murthy, H. N. (1994). On a mixed problem for the temperature equation in generalized thermoelasticity. *Acta Mech.*, 104(1-2):105–114.

Chandrasekharaiah, D. S. and Srikantaiah, K. R. (1983). Some theorems in temperature-rate-dependent theory of thermoelasticity. *Proc.: Math. Sci.*, 92(3):135–141.

Chandrasekharaiah, D. S. and Srikantiah, K. R. (1984). Thermoelastic plane waves in a rotating solid. *Acta Mech.*, 50(3-4):211–219.

Chandrasekharaiah, D. S. and Srikantiah, K. R. (1986). Temperature-rate dependent thermoelastic waves in a half space. *Indian J. Tech.*, 24:66–70.

Chandrasekharaiah, D. S. and Srikantiah, K. R. (1987). On temperature-rate dependent thermoelastic interactions in an infinite solid due to a point heat-source. *Indian J. Technol.*, 25(1):1–7.

Chandrasekharaiah, D. S. and Srinath, K. S. (1997a). Axisymmetric thermoelastic interactions without energy dissipation in an unbounded body with cylindrical cavity. *J. Elast.*, 46(1):19–31.

Chandrasekharaiah, D. S. and Srinath, K. S. (1997b). Thermoelastic plane waves without energy dissipation in a rotating body. *Mech. Res. Commun.*, 24(5):551–560.

Chandrasekharaiah, D. S. and Srinath, K. S. (1998a). Thermoelastic interactions without energy dissipation due to a line heat source. *Acta Mech.*, 128(3-4):243–251.

Chandrasekharaiah, D. S. and Srinath, K. S. (1998b). Thermoelastic interactions without energy dissipation due to a point heat source. *J. Elast.*, 50(2):97–108.

Chandrasekharaiah, D. S. and Srinath, K. S. (2000). Thermoelastic waves without energy dissipation in an unbounded body with a spherical cavity. *Int. J. Math. Math. Sci.*, 23(8):555–562.

Chatterjee, G. and Roychoudhuri, S. K. (1990). On spherically symmetric temperature-rate dependent thermoelastic wave propagation. *J. Math. Phys. Sci*, 24:251–264.

Chen, T.-C. and Weng, C.-I. (1988). Generalized coupled transient thermoelastic plane problems by Laplace transform/finite element method. *J. Appl. Mech.*, 55(2):377–382.

Chen, Y. M. and Tien, C. L. (1967). Penetration of temperature waves in a random medium. *Stud. Appl. Math.*, 46(1-4):188–194.

Chester, M. (1963). Second sound in solids. *Phys. Rev.*, 131(5):2013–2015.

Chester, M. (1966). High-frequency thermometry. *Phys. Rev.*, 145(1):76–80.

Chiba, R. and Sugano, Y. (2007). Stochastic thermoelastic problem of a functionally graded plate under random temperature load. *Arch. Appl. Mech.*, 77(4):215–227.

Chiriţă, S. and Ciarletta, M. (2010). Reciprocal and variational principles in linear thermoelasticity without energy dissipation. *Mech. Res. Commun.*, 37(3):271–275.

Ciarletta, M. (1991). A solution of Galerkin type in the theory of thermoelastic materials with voids. *J. Therm. Stresses*, 14(4):409–417.

Ciarletta, M. (1995). General theorems and fundamental solutions in the dynamical theory of mixtures. *J. Elast.*, 39(3):229–246.

Ciarletta, M. (1999). A theory of micropolar thermoelasticity without energy dissipation. *J. Therm. Stresses*, 22(6):581–594.

Ciarletta, M., Scalia, A., and Svanadze, M. (2007). Fundamental solution in the theory of micropolar thermoelasticity for materials with voids. *J. Therm. Stresses*, 30(3):213–229.

Cimmelli, V. A. and Rogolino, P. (2002). A domain of influence theorem in linear thermo-elasticity with thermal relaxation and internal variable. *Arch. Mech.*, 54(1):15–33.

Deresiewicz, H. (1957). Plane waves in a thermoelastic solid. *J. Acoust. Soc. Am.*, 29(2):204–209.

Deswal, S., Punia, B. S., and Kalkal, K. K. (2019a). Reflection of plane waves at the initially stressed surface of a fiber-reinforced thermoelastic half space with temperature dependent properties. *Int. J. Mech. Mater. Des.*, 15(1):159–173.

Deswal, S., Sheokand, S. K., and Kalkal, K. K. (2019b). Reflection at the free surface of fiber-reinforced thermoelastic rotating medium with two-temperature and phase-lag. *Appl. Math. Model.*, 65:106–119.

Dhaliwal, R. S., Majumdar, S. R., and Wang, J. (1997). Thermoelastic waves in an infinite solid caused by a line heat source. *Int. J. Math. Math. Sci.*, 20(2):323–334.

Dhaliwal, R. S. and Rokne, J. G. (1989). One-dimensional thermal shock problem with two relaxation times. *J. Therm. Stresses*, 12(2):259–279.

Dhaliwal, R. S. and Sherief, H. H. (1980). Generalized thermoelasticity for anisotropic media. *Q. Appl. Math.*, 38(1):1–8.

Dhaliwal, R. S. and Singh, A. (1980). *Dynamic coupled thermoelasticity*. Hindustan Publishing Corporation.

Dreher, M., Quintanilla, R., and Racke, R. (2009). Ill-posed problems in thermomechanics. *Appl. Math. Lett.*, 22(9):1374–1379.

Duhamel, J. M. C. (1837). Second memoire sur les phenomenes thermo-mecaniques. *J. Ec. Polytech. (Paris)*, 15(25):1–57.

El-Karamany, A. S. and Ezzat, M. A. (2011a). Convolutional variational principle, reciprocal and uniqueness theorems in linear fractional two-temperature thermoelasticity. *J. Therm. Stresses*, 34(3):264–284.

El-Karamany, A. S. and Ezzat, M. A. (2011b). On fractional thermoelasticity. *Math. Mech. Solids*, 16(3):334–346.

El-Karamany, A. S. and Ezzat, M. A. (2013). On the three-phase-lag linear micropolar thermoelasticity theory. *Eur. J. Mech. A. Solids.*, 40:198–208.

El-Karamany, A. S. and Ezzat, M. A. (2014). On the dual-phase-lag thermoelasticity theory. *Meccanica*, 49(1):79–89.

El-Maghraby, N. M. (2005). A two-dimensional problem for a thick plate with heat sources in generalized thermoelasticity. *J. Therm. Stresses*, 28(12):1227–1241.

Erbay, S. and Suhubi, E. S. (1986). Longitudinal wave propagation in a generalized thermoelastic cylinder. *J. Therm. Stresses*, 9(3):279–295.

Eringen, A. C. (1970). *Foundations of micropolar thermoelasticity*. Springer,Berlin.

Eringen, A. C. (1974). Theory of nonlocal thermoelasticity. *Int. J. Eng. Sci.*, 12(12):1063–1077.

Eringen, A. C. (2002). *Nonlocal continuum field theories*. Springer Science & Business Media, New York.

Ezzat, M. A. and El-Karamany, A. S. (2002). The uniqueness and reciprocity theorems for generalized thermoviscoelasticity for anisotropic media. *J. Therm. Stresses*, 25(6):507–522.

Francis, P. H. (1972). Thermo-mechanical effects in elastic wave propagation: A survey. *J. Sound Vib.*, 21(2):181–192.

Fujimoto, J. G., Liu, J. M., Ippen, E. P., and Bloembergen, N. (1984). Femtosecond laser interaction with metallic tungsten and nonequilibrium electron and lattice temperatures. *Phys. Rev. Lett.*, 53(19):1837–1840.

Furukawa, T., Noda, N., and Ashida, F. (1990). Generalized thermoelasticity for an

infinite body with a circular cylindrical hole. *JSME Int. J. Ser. 1, Solid Mech. Strength Mater*, 33(1):26–32.

Gaikovich, K. P. (1996). Stochastic theory of temperature distribution and thermal emission of half-space with random time-dependent surface temperature. *IEEE Trans. Geosci. Remote Sens.*, 34(2):582–587.

Galerkin, B. (1930). Contribution à la solution gènèrale du problème de la thèorie de ì èlasticite, dans le cas de trois dimensions. *C. R. Acad. Sci. Paris*, 190:1047–1048.

Giorgashvili, L., Jaghmaidze, A., Karseladze, G., and Sadunishvili, G. (2015). Boundary value problems of stationary oscillation of thermoelasticity of microstretch materials with microtemperatures. *Georgian Math. J.*, 22(1):57–70.

Gladysz, J. (1985). Convolutional variational principles for thermoelasticity with finite wave speeds. *J. Therm. Stresses*, 8(2):205–226.

Green, A. E. and Laws, N. (1972). On the entropy production inequality. *Arch. Ration. Mech. Anal.*, 45(1):47–53.

Green, A. E. and Lindsay, K. A. (1972). Thermoelasticity. *J. Elast.*, 2(1):1–7.

Green, A. E. and Naghdi, P. M. (1991). A re-examination of the basic postulates of thermomechanics. *Proc. R. Soc. Lond. A.*, 432(1885):171–194.

Green, A. E. and Naghdi, P. M. (1992). On undamped heat waves in an elastic solid. *J. Therm. Stresses*, 15(2):253–264.

Green, A. E. and Naghdi, P. M. (1993). Thermoelasticity without energy dissipation. *J. Elast.*, 31(3):189–208.

Guo, Z. Y. and Cao, B. Y. (2008). A general heat conduction law based on the concept of motion of thermal mass. *Acta Phys. Sinica*, 7:053.

Guo, Z. Y. and Hou, Q. W. (2010). Thermal wave based on the thermomass model. *J Heat Transf.*, 132(7):072403–1–072403–6.

Gurtin, M. E. (1964). Variational principles for linear elastodynamics. *Arch. Ration. Mech. Anal.*, 16(1):34–50.

Gurtin, M. E. (1972). The linear theory of elasticity. In Truesdell, C., editor, *Ency. Phys.*, volume VIa/2, pages 1–295.

Gutenberg, B. (1944). Energy ratio of reflected and refracted seismic waves. *Bull. Seismol. Soc. Am.*, 34(2):85–102.

Guyer, R. A. and Krumhansl, J. A. (1964). Dispersion relation for second sound in solids. *Phys. Rev.*, 133(5A):A1411–A1417.

Hetnarski, R. B., Eslami, M. R., and Gladwell, G. M. L. (2009). *Thermal stresses: Advanced theory and applications*, volume 41. Springer, Netherlands.

Hetnarski, R. B. and Ignaczak, J. (1993). Generalized thermoelasticity: closed-form solutions. *J. Therm. Stresses*, 16(4):473–498.

Hetnarski, R. B. and Ignaczak, J. (1999). Generalized thermoelasticity. *J. Therm. Stresses*, 22(4-5):451–476.

Hetnarski, R. B. and Ignaczak, J. (2010). *The mathematical theory of elasticity.* CRC Press, New York.

Higham, D. J. (2001). An algorithmic introduction to numerical simulation of stochastic differential equations. *SIAM Rev.*, 43(3):525–546.

Hoel, P. G., Port, S. C., and Stone, C. J. (1986). *Introduction to stochastic processes.* Waveland Press, Illinois.

Iacovache, M. (1949). O extindere a metogei lui Galerkin pentru sistemul ecuatiilor elsticittii. *Bul. St. Acad. Rep. Pop Romane*, pages 593–596.

Ieşan, D. (1966). Principes variationnels dans la theorie de la thermoelasticite couplee. *Ann, Sci. Univ. Al. I. Cuza Iasi. Mathematica*, 12:439–456.

Ieşan, D. (1967). Sur la théorie de la thermoélasticité micropolaire couplée. *CR Acad. Sci. Paris*, 265:271–275.

Ieşan, D. (1974). On some reciprocity theorems and variational theorems in linear dynamic theories of continuum mechanics. *Memorie Accad. Sci. Torino. Cl. Sci. Fis. Mat. Nat. Ser.*, 4:17–37.

Ieşan, D. (1989). Reciprocity, uniqueness, and minimum principles in the dynamic theory of thermoelasticity. *J. Therm. Stresses*, 12(4):465–481.

Ieşan, D. (1998). On the theory of thermoelasticity without energy dissipation. *J. Therm. Stresses*, 21(3-4):295–307.

Ignaczak, J. (1963). A completeness problem for stress equations of motion in the linear elasticity theory. *Arch. Mech. Stos*, 15(2):225–234.

Ignaczak, J. (1978). Domain of influence theorem in linear thermoelasticity. *Int. J. Eng. Sci.*, 16(2):139–145.

Ignaczak, J. (1979). Uniqueness in generalized thermoelasticity. *J. Therm. Stresses*, 2(2):171–175.

Ignaczak, J. (1991). Domain of influence results in generalized thermoelasticity-A survey. *Appl. Mech. Rev.*, 44(9):375–382.

Ignaczak, J. and Bialy, J. (1980). Domain of influence in thermoelasticity with one relaxation time. *J. Therm. Stresses*, 3(3):391–399.

Ignaczak, J. and Mr´ owka Matejewska, E. B. (1990). One-dimensional Green's function in temperature-rate dependent thermoelasticity. *J. Therm. Stresses*, 13(3):281–296.

Ignaczak, J. and Nowacki, W. (1966). Singular integral equations of thermoelasticity. *Int. J. Eng. Sci.*, 4(1):53–68.

Ignaczak, J. and Ostoja-Starzewski, M. (2010). *Thermoelasticity with finite wave speeds*. Oxford University Press.

Ionescu-Cazimir, V. (1964). Problem of linear thermoelasticity. Uniqueness theorems (I),(II). *Bull. Acad. Polon. Sci., Sć rie Sci. Techn*, 12:12.

Ismail, I. A. and Nowinski, J. L. (1965). Thermoelastic problem for shells of revolution exhibiting temperature dependent properties. *Appl. Sci. Res. Sec. A*, 14(1):211–232.

Jangid, K. and Mukhopadhyay, S. (2020). Variational and reciprocal principles on the temperature-rate dependent two-temperature thermoelasticity theory. *J. Therm. Stresses*, 43(7):816–828.

Jangid, K. and Mukhopadhyay, S. (2021a). A domain of influence theorem for a natural stress–heat-flux problem in the Moore–Gibson–Thompson thermoelasticity theory. *Acta Mech.*, 232(1):177–187.

Jangid, K. and Mukhopadhyay, S. (2021b). A domain of influence theorem under MGT thermoelasticity theory. *Math. Mech. Solids*, 26(2):285–295.

Jeffreys, H. (1930). The thermodynamics of an elastic solid. In *Math. Proc. Camb. Philos. Soc.*, volume 26, pages 101–106. Cambridge University Press.

Joseph, D. D. and Preziosi, L. (1989). Heat waves. *Rev. Mod. Phys.*, 61(1):41 – 73.

Joseph, D. D. and Preziosi, L. (1990). Heat waves: Addendum. *Rev. Mod. Phys*, 62:375–391.

Kant, S. (2018). *Study on non-Fourier heat conduction models for coupled thermo-mechanical problems*. PhD thesis, Indian institute of technology (BHU), Varanasi, India.

Kant, S. and Mukhopadhyay, S. (2016). An investigation on coupled thermoelastic interactions in a thick plate due to axi-symmetric temperature distribution under an exact heat conduction with a delay. *Int. J. Therm. Sci.*, 110:159–173.

Kant, S. and Mukhopadhyay, S. (2017). Investigation of a problem of an elastic half space subjected to stochastic temperature distribution at the boundary. *Appl. Math. Modell.*, 46:492–518.

Kant, S. and Mukhopadhyay, S. (2018). Investigation on effects of stochastic loading at the boundary under thermoelasticity with two relaxation parameters. *Appl. Math. Model.*, 54:648–669.

Kar, A. and Kanoria, M. (2009). Generalized thermoelastic functionally graded orthotropic hollow sphere under thermal shock with three-phase-lag effect. *Eur. J.*

Mech. A. Solids., 28(4):757–767.

Keller, J. B., Papanicolaou, G. C., and Weilenmann, J. (1978). Heat conduction in a one-dimensional random medium. *Commun. Pure Appl. Math.*, 31(5):583–592.

Knott, C. G. (1899). III. Reflexion and refraction of elastic waves, with seismological applications. *London Edinburgh Philos. Mag. J. Sci.*, 48(290):64–97.

Kolyano, Y. M. and Semerak, F. V. (1973). Solution of the dynamic problem of thermoelasticity for a circular plate, taking into account the finite velocity of propagation of heat. *Strength Mater.*, 5(2):234–240.

Kothari, S. (2013). *Some aspects of generalized thermoelasticity and thermoelastic diffusion.* PhD thesis, Indian institute of technology (BHU), Varanasi, India.

Kothari, S., Kumar, R., and Mukhopadhyay, S. (2010). On the fundamental solutions of generalized thermoelasticity with three phase-lags. *J. Therm. Stresses*, 33(11):1035–1048.

Kothari, S. and Mukhopadhyay, S. (2012). On the representations of solutions in the theory of generalized thermoelastic diffusion. *Math. Mech. Solids*, 17(2):120–130.

Kothari, S. and Mukhopadhyay, S. (2013a). Some theorems in linear thermoelasticity with dual phase-lags for an anisotropic medium. *J. Therm. Stresses*, 36(10):985–1000.

Kothari, S. and Mukhopadhyay, S. (2013b). Study of a problem of functionally graded hollow disk under different thermoelasticity theories–an analysis of phase-lag effects. *Comput. Math. with Appl.*, 66(7):1306–1321.

Kumar, A. (2018). *Modeling on coupled thermo-mechanics for homogeneous and non-homogenous elstic medium.* PhD thesis, Indian institute of technology (BHU), Varanasi, India.

Kumar, A., Kant, S., and Mukhopadhyay, S. (2017). An in-depth investigation on plane harmonic waves under two-temperature thermoelasticity with two relaxation parameters. *Math. Mech. Solids*, 22(2):191–209.

Kumar, A. and Kumar, R. (2015). A domain of influence theorem for thermoelasticity with three-phase-lag model. *J. Therm. Stresses*, 38(7):744–755.

Kumar, A. and Mukhopadhyay, S. (2016). An investigation on thermoelastic interactions under an exact heat conduction model with a delay term. *J. Therm. Stresses*, 39(8):1002–1016.

Kumar, A. and Mukhopadhyay, S. (2017). Investigation on the effects of temperature dependency of material parameters on a thermoelastic loading problem. *Z. Angew. Math. Phys.*, 68(4):98–1–98–12.

Kumar, R. (2010). *Study of some problems under generalized thermoelasticity and*

thermoelasticity with two temperatures. PhD thesis, Institute of Technology (BHU), Varanasi, India.

Kumar, R. and Chawla, V. (2011). A study of plane wave propagation in anisotropic three-phase-lag and two-phase-lag model. *Int. Commun. Heat Mass*, 38(9):1262–1268.

Kumar, R. and Mukhopadhyay, S. (2009). Effects of three phase lags on generalized thermoelasticity for an infinite medium with a cylindrical cavity. *J. Therm. Stresses*, 32(11):1149–1165.

Kumar, R. and Mukhopadhyay, S. (2010). Analysis of the effects of phase-lags on propagation of harmonic plane waves in thermoelastic media. *Comp. Methods Sci. Technol.*, 16(1):19–28.

Kumar, R. and Sarthi, P. (2006). Reflection and refraction of thermoelastic plane waves at an interface between two thermoelastic media without energy dissipation. *Arch. Mech.*, 58(2):155–185.

Kumar, R., Sharma, K. D., and Garg, S. K. (2014). Effect of two temperatures on reflection coefficient in micropolar thermoelastic with and without energy dissipation media. *Adv. Acoust. Vib.*, 2014:1–11.

Kumari, B. (2017). *Investigation on some recent non-Fourier heat conduction models for coupled dynamical thermo-mechanical problems*. PhD thesis, Indian institute of technology (BHU), Varanasi, India.

Kumari, B., Kumar, A., and Mukhopadhyay, S. (2019). Investigation of harmonic plane waves: detailed analysis of recent thermoplastic model with single delay term. *Math. Mech. Solids*, 24(3):828–844.

Kumari, B. and Mukhopadhyay, S. (2017a). A domain of influence theorem for thermoelasticity without energy dissipation. *Math. Mech. Solids*, 22(11):2156–2164.

Kumari, B. and Mukhopadhyay, S. (2017b). Fundamental solutions of thermoelasticity with a recent heat conduction model with a single delay term. *J. Therm. Stresses*, 40(7):866–878.

Kumari, B. and Mukhopadhyay, S. (2017c). Some theorems on linear theory of thermoelasticity for an anisotropic medium under an exact heat conduction model with a delay. *Math. Mech. Solids*, 22(5):1177–1189.

Kupradze, V. D., Gegelia, T. G., Basheleishvili, M. O., and Burchuladze, T. V. (1976). Three-dimensional problems of the mathematical theory of elasticity and thermoelasticity.

Lawler, G. F. (2006). *Introduction to stochastic processes*. CRC Press, New York.

Lebon, G. (1980). Variational principles in thermomechanics. *Recent Devel. Thermo-*

mech. Solids, 282:221–415.

Leseduarte, M. C. and Quintanilla, R. (2013). Phragmén-Lindelöf alternative for an exact heat conduction equation with delay. *Commun. Pure Appl. Anal.*, 12(3):1221–1235.

Lessen, M. (1957). The motion of a thermoelastic solid. *Q. Appl. Math.*, 15(1):105–108.

Lessen, M. (1959). Thermoelastic waves and thermal shock. *J. Mech. Phys. Solids*, 7(2):77–84.

Lord, H. W. and Lopez, A. A. (1970). Wave propagation in thermoelastic solids at very low temperature. *Acta Mech.*, 10(1-2):85–98.

Lord, H. W. and Shulman, Y. (1967). A generalized dynamical theory of thermoelasticity. *J. Mech. Phys. Solids*, 15(5):299–309.

Maizel, V. M. (1951). The temperature problem of elasticity theory [in Russian]. *Ukr. Acad. Sci., Kiev.*

Mallik, S. H. and Kanoria, M. (2008). A two dimensional problem for a transversely isotropic generalized thermoelastic thick plate with spatially varying heat source. *Eur. J. Mech. A. Solids.*, 27(4):607–621.

Marin, M. (1997). On the domain of influence in thermoelasticity of bodies with voids. *Arch. Math.*, 33(3):301–308.

Marin, M. (2010). A domain of influence theorem for microstretch elastic materials. *Nonlinear Anal. Real World Appl.*, 11(5):3446–3452.

Marin, M., Othman, M. I. A., Seadawy, A. R., and Carstea, C. (2020). A domain of influence in the Moore–Gibson–Thompson theory of dipolar bodies. *J. Taibah Univ. Sci.*, 14(1):653–660.

Maurer, M. J. (1969). Relaxation model for heat conduction in metals. *J. Appl. Phys.*, 40(13):5123–5130.

Maurer, M. J. and Thompson, H. A. (1973). Non-Fourier effects at high heat flux. *J. Heat Transf.*, 95(2):284–286.

Mengi, Y. and Turhan, D. (1978). The influence of the retardation time of the heat flux on pulse propagation. *J. Appl. Mech.*, 45(2):433–435.

Misra, J. C., Chattopadhyay, N. C., and Chakravorty, A. (2000). Study of thermoelastic wave propagation in a half-space using GN theory. *J. Therm. Stresses*, 23(4):327–351.

Misra, J. C., Chattopadhyay, N. C., and Samanta, S. C. (1996). Study of the thermoelastic interactions in an elastic half space subjected to a ramp-type heating-A state-space approach. *Int. J. Eng. Sci.*, 34(5):579–596.

Mukhopadhyay, B., Bera, R., and Debnath, L. (1991). On generalized thermoelastic

disturbances in an elastic solid with a spherical cavity. *Int. J. Stoch. Anal.*, 4(3):225–240.

Mukhopadhyay, S., Kothari, S., and Kumar, R. (2010). On the representation of solutions for the theory of generalized thermoelasticity with three phase-lags. *Acta Mech.*, 214(3-4):305–314.

Mukhopadhyay, S., Kothari, S., and Kumar, R. (2011a). A domain of influence theorem for thermoelasticity with dual phase-lags. *J. Therm. Stresses*, 34(9):923–933.

Mukhopadhyay, S., Kothari, S., and Kumar, R. (2014). Dual phase-lag thermoelasticity. In *Ency. Therm. Stresses*, pages 1003–1019. Springer.

Mukhopadhyay, S. and Kumar, R. (2010a). Analysis of phase-lag effects on wave propagation in a thick plate under axisymmetric temperature distribution. *Acta Mech.*, 210(3-4):331–344.

Mukhopadhyay, S. and Kumar, R. (2010b). State-space approach to thermoelastic interactions in generalized thermoelasticity type III. *Arch. Appl. Mech.*, 80(8):869–881.

Mukhopadhyay, S., Picard, R., Trostorff, S., and Waurick, M. (2016). On some models in linear thermo-elasticity with rational material laws. *Math. Mech. Solids*, 21(9):1149–1163.

Mukhopadhyay, S., Picard, R., Trostorff, S., and Waurick, M. (2017). A note on a two-temperature model in linear thermoelasticity. *Math. Mech. Solids*, 22(5):905–918.

Mukhopadhyay, S., Prasad, R., and Kumar, R. (2011b). Variational and reciprocal principles in linear theory of type-III thermoelasticity. *Math. Mech. Solids*, 16(4):435–444.

Nayfeh, A. H. and Nemat-Nasser, S. (1972). Transient thermo-elastic waves in a half-space with thermal relaxation. *Z. Angew. Math. Phys.*, 23(1):50–68.

Nettleton, R. E. (1960). Relaxation theory of thermal conduction in liquids. *Phys. Fluids*, 3(2):216–225.

Neumann, K. E. (1841). Die Gesetze der Doppelbrechung des Lichts in comprimirten oder ungleichförmig erwärmten unkrystallinischen Körpern. *Ann. Phys.*, 130(12):449–476.

Nickell, R. E. and Sackman, J. L. (1968). Variational principles for linear coupled thermoelasticity. *Q. Appl. Math.*, 26(1):11–26.

Noda, N. (1986). Thermal stresses in materials with temperature-dependent properties. *Therm. Stresses I.*, 1:391–483.

Noda, N., Furukawa, T., and Ashida, F. (1989). Generalized thermoelasticity in an

infinite solid with a hole. *J. Therm. Stresses*, 12(3):385–402.

Norwood, F. R. and Warren, W. E. (1969). Wave propagation in the generalized dynamical theory of thermoelasticity. *Q. J. Mech. Appl. Math.*, 22(3):283–290.

Nowacki, W. (1962). *Thermoelasticity (International series of monograph on aeronautics and astronautics)*. Polish Scientific Publishers, Pergamon.

Nowacki, W. (1964). Green functions for the thermoelastic medium. *Bull. Acad. Polon. Sci. Ser. Sci. Tech.*, 12:465–472.

Nowacki, W. (1969a). On the completeness of potentials in micropolar elasticity. *Arch. Mech. Stos.*, 21:107–122.

Nowacki, W. (1969b). *Progress in thermoelasticity*. Polish Academy of Sciences.

Nowacki, W. (1975a). *Dynamic problems of thermoelasticity*. Springer Science & Business Media.

Nowacki, W. (1975b). Fundamental relations and equations of thermoelasticity. *Dynamic Problems of Thermoelasticity, English Edition, Noordhoff Int. Pub., Leyden, The Netherlands*.

Nowinski, J. L. (1978). *Theory of thermoelasticity with applications*, volume 3. Sijthoff & Noordhoff International Publishers.

Nunziato, J. W. and Cowin, S. C. (1979). A nonlinear theory of elastic materials with voids. *Arch. Ration. Mech. Anal.*, 72(2):175–201.

Onsager, L. (1931). Reciprocal relations in irreversible processes. I. *Physical review*, 37(4):405–426.

Othman, M. I. A. (2002). Lord-Shulman theory under the dependence of the modulus of elasticity on the reference temperature in two-dimensional generalized thermoelasticity. *J. Therm. Stresses*, 25(11):1027–1045.

Othman, M. I. A. (2003). State-space approach to generalized thermoelasticity plane waves with two relaxation times under dependence of the modulus of elasticity on reference temperature. *Can. J. Phys.*, 81(12):1403–1418.

Othman, M. I. A. (2004). Effect of rotation on plane waves in generalized thermoelasticity with two relaxation times. *Int. J. Solids Struct.*, 41(11-12):2939–2956.

Othman, M. I. A. and Kumar, R. (2009). Reflection of magneto-thermoelasticity waves with temperature dependent properties in generalized thermoelasticity. *Int. Commun. Heat Mass Trans.*, 36(5):513–520.

Othman, M. I. A. and Singh, B. (2007). The effect of rotation on generalized micropolar thermoelasticity for a half-space under five theories. *Int. J. Solids Struct.*, 44(9):2748–2762.

Othman, M. I. A. and Song, Y. (2007). Reflection of plane waves from an elastic solid half-space under hydrostatic initial stress without energy dissipation. *Int. J. Solids Struct.*, 44(17):5651–5664.

Othman, M. I. A. and Song, Y. (2008). Reflection of magneto-thermoelastic waves with two relaxation times and temperature dependent elastic moduli. *Appl. Math. Modell.*, 32(4):483–500.

Parkus, H. (1963). Methods of solution of thermoelastic boundary value problems. *High Temp. Struct. Mater.*, pages 317–347.

Parkus, H. (2012). *Thermoelasticity*. Springer Science & Business Media, New York.

Picard, R. (2005). Linear thermo-elasticity in non-smooth media. *Math. Methods Appl. Sci.*, 28(18):2183–2199.

Picard, R. (2009). A structural observation for linear material laws in classical mathematical physics. *Math. Methods Appl. Sci.*, 32(14):1768–1803.

Platen, E. and Kloeden, P. (2006). *Numerical Solution of Stochastic Differential Equations*. CRC Press.

Ponnusamy, S. (2005). *Foundation of Complex Analysis*. Narosa Publishing House.

Povstenko, Y. (2015). *Fractional thermoelasticity*. Springer.

Povstenko, Y. (2019). Fractional thermoelasticity problem for an infinite solid with a cylindrical hole under harmonic heat flux boundary condition. *Acta Mech.*, 230(6):2137–2144.

Prasad, R. (2012). *Some studies on generalized thermoelasticity and crack poblems*. PhD thesis, Institute of Technology (BHU), Varanasi, India.

Prasad, R., Kumar, R., and Mukhopadhyay, S. (2010). Propagation of harmonic plane waves under thermoelasticity with dual-phase-lags. *Int. J. Eng. Sci.*, 48(12):2028–2043.

Prasad, R., Kumar, R., and Mukhopadhyay, S. (2011). Effects of phase lags on wave propagation in an infinite solid due to a continuous line heat source. *Acta Mech.*, 217(3-4):243–256.

Predeleanu, M. (1959). On thermal stresses in visco-elastic bodies. *Bull. Math. Soc. Sci. Math. Phys. Roum.*, 3(2):223–228.

Puri, P. (1972). Plane waves in thermoelasticity and magnetothermoelasticity. *Int. J. Eng. Sci.*, 10(5):467–477.

Puri, P. (1973). Plane waves in generalized thermoelasticity. *Int. J. Eng. Sci.*, 11(7):735–744.

Puri, P. and Jordan, P. M. (2004). On the propagation of plane waves in type-III

thermoelastic media. In *Proc. R. Soc. Lond. A*, volume 460, pages 3203–3221. The Royal Society.

Puri, P. and Jordan, P. M. (2006). On the propagation of harmonic plane waves under the two-temperature theory. *Int. J. Eng. Sci.*, 44(17):1113–1126.

Qiu, T. Q. and Tien, C. L. (1992). Short-pulse laser heating on metals. *Int. J. Heat Mass Transf.*, 35(3):719–726.

Qiu, T. Q. and Tien, C. L. (1993). Heat transfer mechanisms during short-pulse laser heating of metals. *J. Heat Transf.*, 115(4):835–841.

Quintanilla, R. (1999). On the spatial behavior in thermoelasticity without energy dissipation. *J. Therm. Stresses*, 22(2):213–224.

Quintanilla, R. (2001). Structural stability and continuous dependence of solutions of thermoelasticity of type III. *Discrete Contin. Dyn. Syst. B*, 1(4):463–470.

Quintanilla, R. (2002a). Existence in thermoelasticity without energy dissipation. *J. Therm. Stresses*, 25(2):195–202.

Quintanilla, R. (2002b). Exponential stability in the dual-phase-lag heat conduction theory. *J. Non-Equilib. Thermodyn.*, 27(3):217–227.

Quintanilla, R. (2003). A condition on the delay parameters in the one-dimensional dual-phase-lag thermoelastic theory. *J. Therm. Stresses*, 26(7):713–721.

Quintanilla, R. (2004). Structural stability and convergence in thermoelasticity and heat conduction with relaxation times. *Appl. Anal.*, 83(2):135–155.

Quintanilla, R. (2011). Some solutions for a family of exact phase-lag heat conduction problems. *Mech. Res. Commun.*, 38(5):355–360.

Quintanilla, R. (2018). Some qualitative results for a modification of the Green–Lindsay thermoelasticity. *Meccanica*, 53(14):3607–3613.

Quintanilla, R. (2019). Moore–Gibson–Thompson thermoelasticity. *Math. Mech. Solids*, 24(12):4020–4031.

Quintanilla, R. and Racke, R. (2006). Qualitative aspects in dual-phase-lag thermoelasticity. *SIAM J. Appl. Math.*, 66(3):977–1001.

Quintanilla, R. and Straughan, B. (2004). A note on discontinuity waves in type III thermoelasticity. *Proc. R. Soc. Lond. A.*, 460(2044):1169–1175.

Roychoudhuri, S. K. (2007a). On a thermoelastic three-phase-lag model. *J. Therm. Stresses*, 30(3):231–238.

Roychoudhuri, S. K. (2007b). One-dimensional thermoelastic waves in elastic half-space with dual phase-lag effects. *J. Mech. Mater. Struct.*, 2(3):489–503.

Roychoudhuri, S. K. and Bandyopadhyay, N. (2005). Thermoelastic wave propagation

in a rotating elastic medium without energy dissipation. *Int. J. Math. Math. Sci.*, 2005(1):99–107.

Roychoudhuri, S. K. and Mukhopadhyay, S. (2000). Effect of rotation and relaxation times on plane waves in generalized thermo-visco-elasticity. *Int. J. Math. Math. Sci.*, 23(7):497–505.

Sadd, M. H. and Cha, C. Y. (1982). Axisymmetric non-fourier temperatures in cylindrically bounded domains. *Int. J. Non Linear Mech.*, 17(3):129–136.

Sandru, N. (1966). On some problems of the linear theory of the asymmetric elasticity. *Int. J. Eng. Sci.*, 4(1):81–94.

Sarkar, N. (2017). Temperature dependence of the elastic modulus in three-dimensional generalized thermoelasticity with dual-phase-lag effects. *Comput. Math. Model.*, 28(2):208–227.

Sarkar, N., De, S., and Sarkar, N. (2019). Reflection of thermoelastic waves from the isothermal boundary of a solid half-space under memory-dependent heat transfer. *Waves Random Complex Medium*, pages 1–18.

Sarkar, N. and Lahiri, A. (2012). A three-dimensional thermoelastic problem for a half-space without energy dissipation. *Int. J. Eng. Sci.*, 51:310–325.

Scalia, A. (1990). On some theorems in the theory of micropolar thermoelasticity. *Int. J. Eng. Sci.*, 28(3):181–189.

Scalia, A. and Svanadze, M. (2006). On the representations of solutions of the theory of thermoelasticity with microtemperatures. *J. Therm. Stresses*, 29(9):849–863.

Sharma, J. N. (1997). An alternate state space approach to generalized thermoelasticity. *J. Therm. Stresses*, 20(2):115–127.

Sharma, J. N., Kumar, V., and Chand, D. (2003). Reflection of generalized thermoelastic waves from the boundary of a half-space. *J. Therm. Stresses*, 26(10):925–942.

Sharma, J. N. and Singh, H. (1989). Generalized thermoelastic waves in anisotropic media. *J. Acoust. Soc. Am*, 85(4):1407–1413.

Sharma, M. D. (2007). Propagation of inhomogeneous waves in a generalized thermoelastic anisotropic medium. *J. Therm. Stresses*, 30(7):679–691.

Shashkov, A. G. and Yanovskij, S. Y. (1977). The structure of one-dimensional thermal stresses. *Inzehner.-Fiz. Zh.*, 33(5):912–921.

Sherief, H. H. (1987). On uniqueness and stability in generalized thermoelasticity. *Q. Appl. Math.*, 44(4):773–778.

Sherief, H. H. (1992). Fundamental solution for thermoelasticity with two relaxation times. *Int. J. Eng. Sci.*, 30(7):861–870.

Sherief, H. H. and Anwar, M. N. (1994). State-space approach to two-dimensional generalized thermoelasticity problems. *J. Therm. Stresses*, 17(4):567–590.

Sherief, H. H., El-Maghraby, N. M., and Allam, A. A. (2013). Stochastic thermal shock problem in generalized thermoelasticity. *Appl. Math. Model.*, 37(3):762–775.

Sherief, H. H., El-Maghraby, N. M., and Allam, A. A. (2017). Stochastic thermal shock problem and study of wave propagation in the theory of generalized thermoelastic diffusion. *Math. Mech. Solids*, 22(9):1767–1789.

Sherief, H. H., El-Sayed, A. M. A., and Abd El-Latief, A. M. (2010). Fractional order theory of thermoelasticity. *Int. J. Solids Struct.*, 47(2):269–275.

Sherief, H. H., Hamza, F. A., and El-Sayed, A. M. (2005). Theory of generalized micropolar thermoelasticity and an axisymmetric half-space problem. *J. Therm. Stresses*, 28(4):409–437.

Sherief, H. H., Hamza, F. A., and Saleh, H. A. (2004). The theory of generalized thermoelastic diffusion. *Int. J. Eng. Sci.*, 42(5-6):591–608.

Shivay, O. N. and Mukhopadhyay, S. (2019). Some basic theorems on a recent model of linear thermoelasticity for a homogeneous and isotropic medium. *Math. Mech. Solids*, 24(8):2444–2457.

Singh, B. (2000). Reflection of plane sound wave from a micropolar generalized thermoelastic solid half-space. *J. Sound Vib.*, 235(4):685–696.

Singh, B. (2003). Wave propagation in an anisotropic generalized thermoelastic solid. *Indian J. Pure Appl. Math.*, 34(10):1479–1486.

Singh, B. (2010). Reflection of plane waves at the free surface of a monoclinic thermoelastic solid half-space. *Eur. J. Mech. A. Solids.*, 29(5):911–916.

Singh, B. (2013). Wave propagation in dual-phase-lag anisotropic thermoelasticity. *Continuum Mech. Thermodyn.*, 25(5):675–683.

Singh, B. and Kumar, R. (1998). Reflection of plane waves from the flat boundary of a micropolar generalized thermoelastic half-space. *Int. J. Eng. Sci.*, 36(7-8):865–890.

Singh, R. V. and Mukhopadhyay, S. (2020). An investigation on strain and temperature rate-dependent thermoelasticity and its infinite speed behavior. *J. Therm. Stresses*, 43(3):269–283.

Sinha, S. B. and Elsibai, K. A. (1996). Reflection of thermoelastic waves at a solid half-space with two relaxation times. *J. Therm. Stresses*, 19(8):749–762.

Sneddon, I. N. and Lockett, F. J. (1960). On the steady-state thermoelastic problem for the half-space. *Q. Appl. Math.*, 18:145–153.

Stehfest, H. (1970). Algorithm 368: Numerical inversion of laplace transforms [D5].

Commun. ACM, 13(1):47–49.

Sternberg, E. and McDowell, E. L. (1957). On the steady-state thermoelastic problem for the half-space. *Q. Appl. Math.*, 14(4):381–398.

Straughan, B. (2011). *Heat waves*, volume 177. Springer Science & Business Media.

Suh, C. S. and Burger, C. P. (1998). Effects of thermomechanical coupling and relaxation times on wave spectrum in dynamic theory of generalized thermoelasticity. *J. Appl. Mech.*, 65(3):605–613.

Sur, A. and Kanoria, M. (2012). Fractional order two-temperature thermoelasticity with finite wave speed. *Acta Mech.*, 223(12):2685–2701.

Svanadze, M. and De Boer, R. (2005). On the representations of solutions in the theory of fluid-saturated porous media. *Q. J. Mech. Appl. Math.*, 58(4):551–562.

Svanadze, M., Tibullo, V., and Zampoli, V. (2006). Fundamental solution in the theory of micropolar thermoelasticity without energy dissipation. *J. Therm. Stresses*, 29(1):57–66.

Svanadze, M. M. (2014). On the solutions of equations of the linear thermoviscoelasticity theory for Kelvin–Voigt materials with voids. *J. Therm. Stresses*, 37(3):253–269.

Svanadze, M. M. (2017). On the solutions in the linear theory of micropolar viscoelasticity. *Mech. Res. Commun.*, 81:17–25.

Svanadze, M. Z. (1993). Representation of the general solution of the equation of steady-state oscillations of two-component elastic mixtures. *Prikladnaia Mekhanika*, 29:22–29.

Szekeres, A. (1980). Equation system of thermoelasticity using the modified law of thermal conductivity. *Period. Polytech.*, 24(3):253–261.

Thomson, W. (1857). On the thermoelastic and thermo- magnetic properties of matter. *Q. J. Math.*, 1:57–77.

Tiwari, R. (2017). *Mathematical modeling on advanced thermoelasticity and magneto thermoelasticity*. PhD thesis, Indian institute of technology (BHU), Varanasi, India.

Tiwari, R. and Mukhopadhyay, S. (2017). On electromagneto-thermoelastic plane waves under Green–Naghdi theory of thermoelasticity-II. *J. Therm. Stresses*, 40(8):1040–1062.

Tzou, D. Y. (1988). Stochastic analysis of temperature distribution in a solid with random heat conductivity. *J. Heat Transf.*, 110(1):23–29.

Tzou, D. Y. (1992). Thermal shock phenomena under high rate response in solids. *Annu. Rev. Heat Transf.*, 4(4).

Tzou, D. Y. (1995a). Experimental support for the lagging behavior in heat propagation.

J. Thermophys. Heat Transf., 9(4):686–693.

Tzou, D. Y. (1995b). The generalized lagging response in small-scale and high-rate heating. *Int. J. Heat Mass Transf.*, 38(17):3231–3240.

Tzou, D. Y. (1995c). A unified field approach for heat conduction from macro-to micro-scales. *J. Heat Transf.*, 117(1):8–16.

Tzou, D. Y. (1997). *Macro-to microscale heat transfer: the lagging behavior*. Taylor and Francis, Washington, DC.

Tzou, D. Y. and Guo, Z. Y. (2010). Nonlocal behavior in thermal lagging. *Int. J. Therm. Sci.*, 49(7):1133–1137.

Val'kovskaya, V. I. and Lenyuk, M. P. (1996). Stochastic nonstationary temperature fields in a solid circular-cylindrical two-layer plate. *J. Math. Sci.*, 79(6):1483–1487.

Vernotte, P. (1958). Les paradoxes de la theorie continue de l'equation de la chaleur. *Compt. Rend.*, 246:3154–3155.

Vernotte, P. (1961). Some possible complications in the phenomena of thermal conduction. *Compt. Rend.*, 252:2190–2191.

Voigt, W. (1928). *Lehrbuch der Kristallphysik (Textbook of crystal physics)*. BB Teubner, Leipzig.

Wadhawan, M. C. (1973). Thermoelastic response of a cylinder in the generalised dynamical theory of thermoelasticity. *Pure Appl. Geophys.*, 102(1):37–50.

Wang, J. and Dhaliwal, R. S. (1993). Fundamental solutions of the generalized thermoelastic equations. *J. Therm. Stresses*, 16(2):135–161.

Wang, J. and Slattery, S. P. (2002). Thermoelasticity without energy dissipation for initially stressed bodies. *Int. J. Math. Math. Sci.*, 31(6):329–337.

Wang, Y.-Z., Zhang, X.-B., and Song, X.-N. (2014). A generalized theory of thermoelasticity based on thermomass and its uniqueness theorem. *Acta Mech.*, 225(3):797–808.

Youssef, H. M. (2006a). Generalized magneto-thermoelasticity in a conducting medium with variable material properties. *Appl. Math. Comput.*, 173(2):822–833.

Youssef, H. M. (2006b). Problem of generalized thermoelastic infinite medium with cylindrical cavity subjected to a ramp-type heating and loading. *Arch. Appl. Mech.*, 75(8-9):553–565.

Youssef, H. M. (2006c). Two-dimensional generalized thermoelasticity problem for a half-space subjected to ramp-type heating. *Eur. J. Mech. A. Solids.*, 25(5):745–763.

Youssef, H. M. (2010). Theory of fractional order generalized thermoelasticity. *J. Heat Transf.*, 132(6).

Youssef, H. M. (2016). Theory of generalized thermoelasticity with fractional order

strain. *J. Vib. Control*, 22(18):3840–3857.

Yu, Y. J., Xue, Z.-N., and Tian, X.-G. (2018). A modified Green–Lindsay thermoelasticity with strain rate to eliminate the discontinuity. *Meccanica*, 53(10):2543–2554.

Zenkour, A. M., Mashat, D. S., and Abouelregal, A. E. (2013). The effect of dual-phase-lag model on reflection of thermoelastic waves in a solid half space with variable material properties. *Acta Mech. Solida Sin.*, 26(6):659–670.

***

PUBLICATIONS AND CONFERENCES

Publication Related to the Thesis:

1. **Manushi Gupta** and Santwana Mukhopadhyay. "On the reflection of thermoelastic waves under an exact heat conduction model with a delay and temperature-dependent elastic parameters", ***Waves in Random and Complex Media*** (2021):1-32. Taylor & Francis (SCI, IF: 3.330).

2. **Manushi Gupta** and Santwana Mukhopadhyay. "Analysis of harmonic plane wave propagation by strain and temperature rate-dependent thermoelastic model", ***Waves in Random and Complex Media*** (2020):1-18. Taylor & Francis (SCI, IF: 3.330).

3. **Manushi Gupta** and Santwana Mukhopadhyay. "Stochastic thermoelastic interaction under a dual phase-lag model due to random temperature distribution at the boundary of a half-space", ***Mathematics and Mechanics of Solids*** 24.6 (2019): 1873-1892. Sage Journals (SCIE, IF: 2.04).

4. **Manushi Gupta** and Santwana Mukhopadhyay. "A study on generalized thermoelasticity theory based on non-local heat conduction model with dual-phase-lag", ***Journal of Thermal Stresses*** 42.9 (2019): 1123-1135. Taylor & Francis (SCI, IF: 2.626).

5. **Manushi Gupta** and Santwana Mukhopadhyay. "Galerkin-type solution for the theory of strain and temperature rate-dependent thermoelasticity", ***Acta Mechanica*** 230.10 (2019): 3633-3643. Springer (SCI, IF: 2.102).

6. **Manushi Gupta**, and Santwana Mukhopadhyay. "On linear theory of thermoelasticity for an anisotropic medium under a recent exact heat conduction model", In: (Ghosh D., Giri D., Mohapatra R., Savas E., Sakurai K., Singh L. (eds.)) ***Mathematics and Computing. ICMC 2018. Communications in Computer and Information Science*** 834 (2018): 309-324. Springer, Singapore.

7. **Manushi Gupta,** Komal Jangid, and Santwana Mukhopadhyay. "Domain of influence results of a natural stress-heat-flux problem under thermoelasticity with dual phase-lags". (Under review).

Publications Apart from Thesis:

1. Komal Jangid**, Manushi Gupta,** and Santwana Mukhopadhyay. "On the propagation of harmonic plane waves under the Moore-Gibson-Thompson thermoelasticity theory", ***Waves in Random and Complex Media*** (2021):1-24. Taylor & Francis (SCI, IF: 3.330).

2. Bhagwan Singh , **Manushi Gupta,** and Santwana Mukhopadhyay. "On the fundamental solutions for the strain and temperature rate-dependent generalized thermoelasticity theory." ***Journal of Thermal Stresses*** 43.5 (2020): 650-664. Taylor & Francis (SCI, IF: 2.626).

3. Shashi Kant, **Manushi Gupta**, Om Namha Shivay, and Santwana Mukhopadhyay. "An investigation on a two-dimensional problem of Mode-I crack in a thermoelastic medium." ***Zeitschrift für angewandte Mathematik und Physik*** 69.2 (2018): 21. Springer (SCIE, IF: 1.428).

Conferences and Workshops:

1. Participated in **64th International Congress of ISTAM** held at IIT Bhubaneshwar during December 9-12, 2019 and presented a work with the title "On the propagation of harmonic plane wave under modified Green-Lindsay thermoelasticity theory."

2. Participated in **Indian Women and Mathematics Annual Conference 2019** held at Department of Mathematics, IIT Bombay during June 10-12, 2019 and presented the paper with the title "On the representation of solutions for the theory of generalized thermoelasticity under modified Green-Lindsay model."

3. Participated in QIP short term Course on **Computational Methods on Integral and differential Equations** held at IIT (BHU), Varanasi, during December 10-16, 2018.

4. Participated in ATM workshop on "**Continuum Mechanics Principles and Applications**" held at Department of Mathematics, Panjab University, Chandigarh during November 19-24,2018.

5. Participated in **International Conference on Engineering, Computers and Natural Sciences 2018** held at Vivanta by Taj, Panjim, Goa during October 19-21, 2018 and presented the paper with the title "On the representation of solutions for the theory of generalized thermoelasticity under a recent heat conduction model."

6. Participated in **GIAN Course on Fractional Derivatives and Its Applications** held at IIT (BHU), Varanasi, during January, 30- February 03, 2018.

7. Attended training programme on **Tools for Scientific Documentation: LaTeX, JabRef, DocEar and other open source software** held at DST, Banaras Hindu University during January 2-12, 2018.

8. Participated in **4th International Conference on Mathematics and Computing** held at Department of Mathematical Sciences, IIT (BHU), Varanasi during January 9-11, 2018 and presented the paper with the title "Effects of Stochastic temperature distribution at the boundary of an elastic half-space problem under dual-phase-lag thermoelasticity.

9. Attended a workshop on "**Smart Materials and Structures – Recent Trends in Industrial Applications**" held at IIT (BHU) during September 4-11, 2017.

***