BIBLIOGRAPHY

[1] Ambika, K., Radha, R., Sharma, V. D., "Progressive waves in non-ideal gases", *Int. J. Non-linear Mech.*, **67**, 285-290, 2014.

[2] Anand, R. K., "Shock jump relations for a dusty gas atmosphere", *Astrophys. Space Sci.*, **349**, 181-195, 2014.

[3] Anile, A. M. and Greco, A., "Asymptotic waves and critical time in general relativistic magnetohydrodynamics", *Ann. Inst. Henri Poincare*, **29**, 257-272, 1978.

[4] Anile, A. N., Hunter, J. K., Pantano, P., Russo, G., "Ray method for non-linear waves in fluids and plasmas", Longman, New York, 1993.

[5] Anile, A.N., Russo G., "Generalized wave front expansion I. Higher order correction for the propagation of weak shock waves", *Wave Motion*, **8**, 243, 1986.

[6] Ardavan-Rhad, H., "The decay of a plane shock wave", *J. Fluid Mech.*, **43,** 737-751, 1970.

[7] Arora, R., Tomar, A., Singh, V. P., "Shock wave in reactive hydrodynamics", *Shock waves*, **19**, 145-150, 2009.

[8] Arora, Rajan, "Non-planar shock waves in magnetic field", *Comp. Math. with appl.*, **56**, 2686-2691, 2008.

[9] Asano, N., "Reductive perturbation method for non-linear wave propagation in inhomogeneous media Part-III", *J. Phys. Jpn.*, **29**, 220-224, 1970.

[10] Asano, N., Taniuti, T., "Reductive perturbation method in non-linear wave propagation. Part-I", *J. Phys. Soc. Jpn.* **29**, 209-214, 1970.

[11] Berger, S., Ben-Dor, G., Sadot, O., "Experimental and numerical investigations of shock-wave attenuation by geometrical means A single barrier configuration", *Eur. J. Mech. B/Fluids*, **50**, 60-70, 2015.

[12] Becker, F., "Chemically reacting flows", *Ann. Rev. Fluid Mech.*, **4**, 155-194, 1972.

[13] Boillatt, G., "La propagation des Ondes Gauthier- Villars", Paris, 1965.

[14] Boillatt, G., Ruggeri, T., "On the evolution law of weak discontinuities for Hyperbolic quasi-linear hyperbolic systems", *Wave Motion*, **1,** 149-152, 1979.

[15] Boillatt, G., Ruggeri, T., "On the shock structure problem for hyperbolic system of balance laws and convex entropy", *Continumm Mech. Thermo.*, **10,** 285-292, 1998.

[16] Bowen, R. M. and Chen, P. J., "Shock waves in ideal fluid mixtures with several temperatures", *Arch. Rational Mech. Anal.*, **53,** 277-294, 1974.

[17] Branover, H., "Magnetohydrodynamics Flow in Ducts" Wiley, New York, 1978.

[18] Butler, D., "Converging spherical and cylindrical shocks", Armament Res. Estab. Rep., 54/54. 1954.

[19] Carrier, G. F., "Shock waves in dusty gas", *J. Fluid. Mech.*, **4**, 376-382, 1958.

[20] Chadha, M., Jena, J., "Self similar solutions and converging shocks in a non-ideal gasdynamics with dust particles", *Int. J. Non-linear Mech.*, 65, 164-172, 2014.

[21] Chen, P. J. and Gurtin, M. E., "On the growth of one-dimensional shock waves in materials with memory", *Arch. Rational Mech. Anal.*, **36,** 33-46, 1970.

[22] Chen, P. J., "One dimensional shock waves in elastic non-conductors", *Arch. Rational Mech. Anal.*, **43,** 350-362, 1971.

[23] Chen, P. J., "Thermodynamic influences on shock waves in inhomogeneous elastic bodies", *Acta Mech.*, **17,** 247-253, 1973.

[24] Choquet-Bruhat, Y., "Ondes Asymptotic et Approaches pour des systems d'Equations aux Derivees Partielles non lineaires", *J. Math Pures Appl.*, **48**, 117, 1969.

[25] Chorin, A. J., "Random choice solutions of hyperbolic systems", *J. Comput. Phys.*, **22**, 517-533, 1976.

[26] Chu, B.T., "Weak non-linear waves in non equilibrium flow, in: P.P. Wegener (Ed.) Nonequilibrium flows vol 1 part II", Marcel Dekker, Ney York, 1970.

[27] Coleman, B. D., Gurtin, M. E., "Growth and decay of discontinuities in fluid with internal state variables", *Phys. Fluids*, **10**, 1454, 1967.

[28] Courant, R., Friedrichs, K. O., "Supersonic Flow and Shock Wave", New York, Wiley-Interscience, 1948.

[29] Courant, R., Hilbert, D., "Methods of Mathematical Physics, vol. II", Interscience, New York, 1962.

[30] Cramer, M. S., Sen, R., "A general scheme for the derivation of evolution equation describing mixed nonlinearity", *Wave Motion*, **15**, 333-355, 1992.

[31] Cramer, M. S., Sen, R., "Exact solution of sonic shocks in van der Waals gases", *Phys. Fluids*, **30**, 377-385, 1987.

[32] Flack, R. D. and Wittig, S. L. K., "The propagation of shock waves in gases with arbitrary property gradients", *Z. Angew. Math. Phys.*, **22,** 654-664, 1971.

[33] Fusco, D., "Some comments on wave motions described by non homogenous quasilinear first order hyperbolic system", *Meccanica*, **17**, 128-137, 1982.

[34] Fusco, D., Engelbrecht, J., "The asymptotic analysis of non linear waves in rate dependent media", *Nuovo Ciment* B, **80**, 49-61, 1984.

[35] Germain, P., "Progressive waves", in: 14th L. Prandtl Memorial Lecture, Jahrbuch, der DGLR, pp. 11-30, 1971.

[36] Giacomazzo, B., Rezzolla, L., "The exact solution of the Riemann problem in relativistic magnetohydrodynamics", *J. fluid Mech*. **562**, 223-259, 2000.

[37] Glimm, J., "Solution in the large of non-linear hyperbolic systems of equations", *Comm. Pure Appl. Math*, **18**, 697-715, 1965.

[38] Godunov, S. K., "A difference method for the numerical computation of discontinuous solutions of the equations of hydrodynamics", *Mat. Sb*. **47**, 271-306, 1959. (in Russian).

[39] Godunov, S. K., "Numerical Solution of multidimensional problems in gasdynamics", Nauka, Moscow, 1976.

[40] Goldman, E. and Sirovich, L., "The structure of shock-waves in gas-mixtures", *J. Fluid Mech.*, **35,** 575-597, 1969.

[41] Gottlieb, J. J., Groth. CPT., "Assessment of Riemann solvers of unsteady one – dimensional inviscid flows of perfect gas", *J. Compt. Phys.*, **78**, 437-458, 1988.

[42] Guderley, G., "Starke Kugelige und Zylindrische, Verdichtungsstösse in der Nähe des Kugelmittelpunktes bzw. der Zylinderachse", *Luftfahrtforschung,* **19**, 302-312, 1942.

[43] Gupta, N., Sharma, V.D., Sharma, R.R., Pandey, B.D., "Propagation of rapid pulses through a two phase mixture of gas and dust particles", *Int. J. Engng. Sci.*, **30**, 263-272, 1992.

[44] Gupta, R. K., Nath, Triloki and Singh, L. P., "Solution of Riemann problem for dusty gas flow", *Int. J. Non-linear Mech.*, **82**, 83-92, 2016.

[45] Hayes, W. D., "The vorticity jump across a gasdynamic discontinuity", *J. Fluid Mech.*, **2**, 595-600, 1957.

[46] He, Y., Moodli, T. B., "Geometrical optics and post shock behaviour for non-linear conservation law", *Applicable Analysis*, **57**, 145-176, 1995.

[47] Hoffmann, F. and Teller, E., "Magneto-hydrodynamic shocks", *Phys. Rev.*, **80**, 692-703, 1950.

[48] Hunter, J. K., Keller, J. B., "Weakly non linear high frequency waves", *Comm. Pure Appl. Math.*, **36**, 547-569, 1983.

[49] Hunter, J. K., Majda, A., Rosales, R., "Resonant interacting weakly non-linear hyperbolic waves II. Several space variables", *Studies in Applied Mathematics*, **75**, 187-226, 1986.

[50] Hunter, J.K., "Asymptotic equations for non-linear hyperbolic waves in: M. Freidlin, et al. (Eds), surveys in applied mathematics". vol. **2** Plenum Press, New York, pp. 167-276, 1995.

[51] Jeffrey, A., "Quasilinear hyperbolic systems and waves", Pitman, London, 1976.

[52] Jeffrey, A., Taniuti, T., "Non-linear wave propagation", New York, Academic Press, 1964.

[53] Jena, J., Sharma, V. D., "Self- similar shocks in a dusty gas", *Int. J. Non-linear Mech.*, **34**, 313-327, 1999.

[54] Jena, J., Singh, Randher, "Existence and interaction of acceleration wave with a characteristics shock in transient pinched plasma", *Meccanica*, **48**, 733-738, 2013.

[55] Jordan, PM., "Growth and decay of shock and acceleration waves in a traffic flow model with relaxation", *Physica D*, **207**, 220-229, 2005.

[56] Kantrowitz, A. and Perschek, H. E., "Plasma Physics in Theory and Applications", McGraw Hill, New York, 1966.

[57] Kanwal, R. P., "Flow behind shock waves on conducting gases", *Proc. R. Soc. Lond. A*, **257**, 263-268, 1960.

[58] Kanwal, R. P., "Propagation of curved shocks in pseudo-stationary three-dimensional gas flows", *Illinois J. Math.*, **2,** 129-136, 1958.

[59] Keller, J. B., "Geometrical acoustics I. the theory of weak shock waves", *J. Appl. Phys.*, **25**, 938-947, 1954.

[60] Kluwick, A., Cox E. A., "Non-linear waves in material with mixed nonlinearity", *Wave Motion,* **27**, 23-41, 1998.

[61] Korobeinikov, V. P., "Problems in the theory of point explosion in gases, Providence (RI)", American, mathematical, society, 1976.

[62] Kuila, Sahadeb, Sekhar, TR., "Riemann solution for ideal isentropic magnetogasdynamics", *Meccanica*, **49**, 2453-2465, 2014.

[63] Kuila, Sahadeb, Sekhar, TR., "Riemann solution for one dimensional non-ideal isentropic magnetogasdynamics", *Comp. Appl. Math.*, **35**, 119-133, 2016.

[64] Kulikovski, A. G. and Liubimov, G. A., "On the structure of an inclined Magnetohydrodynamic shock wave", *J. Appl. Math. Mech.*, **25**, 171-191, 1961.

[65] Kuznetsov, N. M., Popov, V. M. and Khodyko, Lu. V., "Structure of shock waves in a diatomic radiating low-density gas", *Sov. Phys. Doklady*, **24,** 451-452, 1979.

[66] Lax, P. D., "hyperbolic system of conservation laws II", *Commun. Pure Appl. Math.*, **18**, 697-715, 1963.

[67] Lewis, R. M., "Asymptotic theory of wave propagation", *Arch. Rtl. Mech. Anal.*, **20**, 191-250, 1965.

[68] Liu Yujin, Sun Wenhua., "Riemann problem and wave interactions in Magnetogasdynamics", *J. Math. Anal. Appl.*, **397**, 454-466, 2013.

[69] Ludwig, D., "Exact and asymptotic solution of the Cauchy problem", *Comm. Pure Appl. Math.*, **13**, 473-508, 1960.

[70] Macpherson, A. K., "The formation of shock wave in a dense gas using a molecular dynamics type technique", *J. Fluid Mech.*, **45**, 601-621, 1971.

[71] Majda, A., Rosales, R., "Rosales, Resonantly interacting weakly non-linear hyperbolic waves", *Studies in Applied Mathematics,* **71**, 149-179, 1984.

[72] Manuel, Nuñez, "Generation of sheet currents by high frequency fast MHD waves", *Physics Letters A.*, **380**, 2288-2293, 2016a.

[73] Manuel, Nuñez, "Geometry of fast magnetosonic rays, wavefronts and shock waves", *Physics Letters A.*, **380**, 3817-3822, 2016b.

[74] Marble, F. E., "Dynamics of a gas containing small Solid particles", Proc. 5th AGARD combustion and propulsion Colloquim, Pergamon Press, New York, USA, 175-215, 1963.

[75] Menon, V. V., Sharma, V. D., Jeffrey, A., "On the general behaviour of acceleration waves", *Appl. Anal.*, **16,** 101-120, 1983.

[76] Mentrelli, A., Ruggeri, T., Sugiyama, M., Zhao, N., "Interaction between a shock and an acceleration wave in a perfect gas for increasing shock strength", *Wave Motion*, **45**, 498-517, 2008.

[77] Miura, H. and Glass, I. I., "On the passage of a shock wave through a dusty-gas layer", *Proc. Roy. Soc. London, Ser. A*, **385**, 85-105, 1983.

[78] Moodie, T. B., He, Y., Barclay, D. W., "Wavefront expansions for non-linear hyperbolic waves", *Wave Motion*, **14**, 347-367, 1991.

[79] Nath Triloki, Gupta, R. K., Singh. L. P., "Evolution of weak shock waves in non-ideal magnetogasdynamics", *Acta Astronautica*, **133,** 397-402, 2017.

[80] Ockendon, H., Spence, D. A., "Non-linear wave propagation in a relaxing gas", *J. Fluid Mech.* **39**, 329-345, 1969.

[81] P.V. Bulat, P. V., Zasukhin, O. N., Upyrev, V. V., Silnikov, M. V., Chernyshov, M. V., "Base pressure oscillations and safety of load launching into orbit", *Acta Astronautica*, **135**, 150-160, 2017.

[82] Pai, S. I., "Magnetogasdynamics and plasma Dynamics", Prentice- Hall, Inc, New York, 1962.

[83] Pai, S. I., "Magnetogasdynamics and Plasma Physics", Springer, Ney York, 1992.

[84] Pai, S. I., "Two phase flow", Braunschweig, Vieweg, Verlag, 1977.

[85] Pai, S. I., Menon S, Fan ZQ., "Similarity solution of a strong shock wave propagating in a mixture of gas and dusty particles", *Int. J. Eng. Sci.*, **18**, 1365-1373, 1980.

[86] Panday, M., Sharma, V. D., "Interaction of a characteristics shock with a weak discontinuity in a non-ideal gas", *Wave Motion*, **44**, 346-354, 2007.

[87] Quartapelle, L., Castelletti, L., Guardone, A., "Solution of Riemann problem of classical gasdynamics", *J. Comput. Phys.*, **190**, 118-140, 2003.

[88] Radha, C. H., Sharma, V. D., "Propagation and interaction of waves in a relaxing gas", *Philos. Trans. R. Soc. London*, **352**A, 169-195, 1995.

[89] Radha, C. H., Sharma, V. D., Jeffrey, A., "On interaction of shock waves with weak discontinuities", *Applicable Analysis,* **50**, 145-166, 1993.

[90] Ram, R., "Analytical solutions of the problem of violent explosions in a plasma of varying density", *Acta Mech.*, **40,** 75-83, 1981.

[91] Ram, R., "Effect of radiative heat transfer on the growth and decay of acceleration waves", *Appl. Sci. Res.*, **34**, :93-103, 1978.

[92] Robert, P. H., "An introduction to Magnetohydrodynamics", Longmans, London, 1967.

[93] Rudinger, G., "Fundamental of gas particle flow", Amsterdam, Elsevier Scientific publishing company, 1980.

[94] Saldatov, G. P., "The instant of formation of a shock wave in a two-way traffic flow", *Prikl. Matem. Mekhan.*, **34**, 135-137, 1970.

[95] Schmitt, H., "Entstehung von Verdichtungsstoben in strahlenden Gasen", *ZAMM,* **52**, 529-534, 1972.

[96] Sedov, L. I., "Similarity and dimensional methods in mechanics", Academic Press, NewYork, 1959.

[97] Sekhar, TR., Sharma, V. D., "Riemann problem and elementary wave interactions in isentropic magnetogasdynamics", *Non-linear Anal. Real*, **11**, 619-636, 2010.

[98] Sekhar, TR., Sharma, V. D., "Solution to the Riemann Problem in a one–dimensional magnetogasdynamics flow", *Int. J. Comput. Math*., **89**, 200-216, 2012.

[99] Seymour, B. R., Mortell, M. P., "Non-linear geometrical optics, Mechanics Today", Pergamon, Oxford, **2**, 1975.

[100] Seymour, B. R., Verley, E., "High frequency, Periodic disturbances in dissipative system, I. Small amplitude, finite rate theory", *Proc R Soc London Ser A,* **314**, 387-415, 1970.

[101] Shankar, Rama., "On the growth and propagation of shock waves in radiation magnetogasdynamics", *Int. J. Eng. Sci.*, **27**, 1315-1323, 1989.

[102] Sharma, V. D., "Quasilinear hyperbolic system, Compressible flow, and waves", CRC Press, Taylor & Francis, USA, 2010.

[103] Sharma, V. D., Sharma, R. R., Pandey, B. D., Gupta, N., "Non-linear analysis of a traffic flow", *Z. Angew. Math. Phys.*, **40**, 828-837, 1989.

[104] Sharma, V. D., Shyam, R. and Singh, L. P., "Shock formation distance in a two dimensional steady flow over a concave corner in radiative magnetogasdynamics", *ZAMM*, **67**, 87-92, 1987a.

[105] Sharma, V. D., Singh, L. P., Ram, R., "The progressive wave approach analyzing the decay of sawtooth profile in magnetogasdynamics", *Phys. Fluids*, **30**, 1572-1574, 1987b.

[106] Sharma, V. D., Srinivasan, G. K., "Wave interaction in a nonequilibrium gas flow", *Int. J. Non-Linear Mech.*, **40**, 1031-1040, 2005.

[107] Sharma, V. D., Venkatraman, R., "Evolution of weak shocks in one dimensional planar and non-planar gasdynamics flow", *Int. J. Non-linear Mech.*, **47**, 918-926, 2012.

[108] Shifrin, E. G., "Formation of a hanging' compression shock in the flow past a body with a discontinuity in its generatrix", *Prikl. Matem. Mekhan.*, **34**, 1159-1167, 1970.

[109] Shyam, R., Sharma, J., Sharma, V. D., "Growth and decay of weak waves in radiative magnetogasdynamics", *AIAA*, **19**, 1246-48, 1981.

[110] Silnikov, Mikhail V., Chernyshov, Mikhail V., "Incident shock strength evolution in overexpanded jet flow out of rocket nozzle", *Acta Astronautica*, **135**, 172-180, 2017.

[111] Singh, L. P., Gupta, R. K., Nath, T., "On the decay of a sawtooth profile in non-ideal Magneto-gasdynamics", *Ain Shams Engineering Journal*, **6**, 599-604, 2015.

[112] Singh, L. P., Husain, Akmal, Singh, M., "A self similar solution of exponential shock waves in non-ideal Magnetogasdynamics", *Meccanica*, **46**, 437-445, 2011.

[113] Singh, L. P., Husain, Akmal, Singh, M., "On the evolution of weak discontinuities in radiative Magnetogasdynamics", *Acta Astronaut*ica., **68**, 16-21, 2011.

[114] Singh, L. P., Ram, S. D., Singh, D. B., "Exact solution of planar and nonplanar weak shock wave problem in gasdynamics", *Chaos Soliton Fract,* **44**, 964-967, 2011.

[115] Singh, L. P., Ram, S. D., Singh, D. B., "Propagation of weak shock waves in non uniform radiative Magnetogasdynamics", *Acta Astronautica.*, **67**, 296-300, 2010.

[116] Singh, L. P., Singh, D. B., Ram, S. D., "Propagation of weak shock waves in non-ideal gas", *Cent. Eur. J Eng.*, **3**, 287-294, 2011.

[117] Singh, L. P., Singh, D. B., Ram, S.D., "Evolution of weak shock waves in perfectly conducting Gases", *Applied mathematics*, **2,** 653-660, 2011.

[118] Singh, L. P., Singh, R., Ram, S. D., "Evolution and decay of acceleration waves in perfectly conducting inviscid radiative magnetogasdynamics", *Astrophys. Space Sci.*, **342**, 371-376, 2012.

[119] Singh, R., Singh, L. P., "Growth and decay behaviour of sawtooth profile in non-ideal gas", *Int. J. Appl. Comp. Math.* (2015), DOI 10.1007/s40819-015-0055-5.

[120] Singh, R., Singh, L. P., "Solution of the Riemann Problem in magnetogasdynamics", *Int. J. Non-Linear Mech.*, **67**, 326-330, 2014a.

[121] Singh, R., Singh, L. P., Ram, S. D., "Acceleration waves in non-ideal Magnetogasdynamics", *Ain Shams Engineering Journal*, **5**, 309-313, 2014b.

[122] Smirnov, N. N., "Ensuring safety of space flight", *Acta Astronautica*, **135**, 1-5, 2017.

[123] Smirnov, N. N., Betelin, V. B., Nikitin, V. F., Yu, G., Phylippov, Jaye Koo, "Detonation engine fed by acetylene-oxygen mixture", *Acta Astronautica*, **104**, 134-146, 2014.

[124] Smirnov, N. N., Penyazkov, O. G., Sevrouk, K. L., Nikitin, V. F., Stamov, L. I., Tyurenkova, V. V., "Detonation onset following shock wave focusing", *Acta Astronautica,* **135**, 114-130, 2017.

[125] Smoller, J., "On the solution of the Riemann problem with general step data for an extended class of hyperbolic systems", *Michigan Math. J.*, **16**, 201-210, 1969.

[126] Smoller, J., "Shock Wave and Reaction Diffusion Equations", New York, Springer, Verlag, 1994.

[127] Sod, G. A., "A numerical study of a converging cylindrical shock", *J. Fluid Mech.*, **83**, 785-794, 1977.

[128] Somogyi, Z. and Roberts, P. H., "Stability of an imploding spherical shock wave in a van der Waals gas II", *Quart. J. Mech. Appl. Math.*, **60**, 289-309, 2007.

[129] Spitzer, L., "Physics of Fully Ionized Gases", Wiley, New York, 1967.

[130] Stanyukovich, K. P., "Unsteady motion of continuous media", Pergamon Press, NewYork, 1960.

[131] Taniuti, T., Wie, C.C., "Reductive perturbation method in non-linear wave propagation. Part-I", *J. Phys. Soc. Jpn.*, **24**, 941-946, 1968.

[132] Taylor, G. I., "The formation of a blast wave by a very intense explosion. I. Theoretical discussion", *Proc. Roy. Soc. A,* **201**, 159-174, 1950.

[133] Thomas, T. Y., "Extended compatibility conditions for the study of surfaces of discontinuity in continuum mechanics", *J. Maths. Mech.*, **6**, 311-322, 1957.

[134] Thomas, T. Y., "On curved shock waves", *J. Math. Phys.*, **26**, 62-68, 1947.

[135] Thompson, P. A., "A fundamental derivative in gas dynamics", *Phys. Fluids*, **14**, 1843-1849, 1971.

[136] Toro, E. F., "Riemann Solvers and Numerical Methods for Fluid dynamics", Berlin, Springer, 1997.

[137] Truesdell, C., "On curved shocks in steady plane flow of an ideal fluid", *J. Aero. Sci.* **19**, 826-828, 1952.

[138] Varley, E., Cumberbatch, E., "Non-linear high frequency sound waves", *J. Inst. Math. Appl.*, **2**, 133-143, 1966.

[139] Verley, E., Rogers, T.G., "The propagation of high frequency, finite acceleration pulses and shocks in viscoelastic material", *Proc. R. Soc. Lond. A*, **296**, 498-512, 1967.

[140] Wanner, et al., "Theoretical and experimental studies of the focus of sonic booms (A)", *J. Acoust. Soc. Am.*, **52,** 13-32, 1972.

[141] Welsh, R. L., "Imploding shocks and detonations", *J. Fluid Mech.*, **29**, 61-79, 1967.

[142] Whitham, G. B., "Linear and non-linear waves", Wiley and Sons, New York, Wiley, 1974.

[143] Wu, C. C., Robert, P.H., "Structure and stability of a spherical shock wave in van der Waals gas", *Quart J. Mech. Appl. Math.*, **49**, 501-543, 1996.

[144] Zen'kevich, S. M. and Stepanov, K. L., "Self- similar solution of the problem of a strong explosion in a perfect gas: Lagrangian description", *J. Eng. Phys. Theomorphys.*, **80**, 89-96, 2007.

[145] Zhao, N., Mentrelli, A., Ruggeri, T., Sugiyama, M., "Admissible shock waves and shock induced phase transitions in a van der Waals fluid", *Phys. Fluids*, **23**, 086-101, 2011.

[146] Zirep, J., "Theoretical Gasdynamics", Springer, Berlin, 1978.

List of Publications

(Published/ Accepted/Communicated)

[1] **Triloki Nath, R.K. Gupta, L.P. Singh,** "Evolution of weak shock waves in non-ideal magnetogasdynamics", **Acta Astronautica**, 133, 397-402, 2017.

[2] **Triloki Nath, R.K. Gupta, L.P. Singh,** "Solution of Riemann Problem for ideal polytropic dusty gas" **Chaos Solitons and Fractals**, 95, 102-110, 2017.

[3] **Triloki Nath, R.K. Gupta, L.P. Singh,** "Resonantly interacting non-linear waves in a van der Waals gas", **Acta Astronautica**, 140, 91-95, 2017.

[4] **Triloki Nath, R.K. Gupta, L.P. Singh,** "The Progressive wave approach analyzing the evolution of shock waves in dusty gas", **Int. J. Appl. Comput. Math.**, 3, 1217-1228, 2017.

[5] **R.K. Gupta, Triloki Nath, L.P. Singh,** "Solution of Riemann problem for dusty gas flow", **Int. J. Non-Linear Mech.**, 82, 83-92, 2016.

[6] **L.P. Singh, R.K. Gupta, T. Nath,** "On the decay of a sawtooth profile in non-ideal magnetogasdynamics**, Ain Shams Engineering journal,** 6, 599-604, 2015.

[7] **Triloki Nath and L.P. Singh**, "Evolution and decay of acceleration waves in dusty gas flow", **Communicated.**

[8] **R.K. Gupta, Triloki Nath, L.P. Singh,** "Simulation of the two dimensional dam break problem with variable bottom geometry", **Under Review.**

[9] **R.K. Gupta, Triloki Nath, L.P. Singh**, "On the Cauchy problem for an isentropic dusty gas", **Under Review.**