

References

- [1] Abbasi F. M., Hayat T. and Alsaedi A., “Numerical analysis for MHD peristaltic transport of Carreau-Yasuda fluid in a curved channel with Hall effects”, *J. Magn. Mater.* **382**(2015) 104-110.
- [2] Abbasi F. M., Hayat T., Ahmad B. and Chen G. Q., “Slip effects on mixed convective peristaltic transport of copper-water nanofluid in an inclined channel”, *PloS One*, **9**(2014) 105-440.
- [3] Abbasi F. M., Hayat T., Shehzad S. A., Alsaadi F. and Altoaibi N., “Hydromagnetic peristaltic transport of copper-water nanofluid with temperature-dependent effective viscosity”, *Particuology*, **27**(2016) 133-140.
- [4] Akbar N. S. and Butt A. W., “Heat transfer analysis for the peristaltic flow of Herschel–Bulkley fluid in a non-uniform inclined channel,” *Z. Naturforsch A*, **70**(2015) 23-32.
- [5] Akbar N. S., “Application of Eyring-Powell fluid model in peristalsis with nano particles”, *J. Comput. Theor. Nanosci.*, **12**(2015) 94-100.
- [6] Akbar N. S., Nadeem S., Khan Z. H., “Numerical simulation of peristaltic flow of a Carreau nano fluid in an asymmetric channel”, *Alexandria Eng. J.*, **53**(2014) 191–197.
- [7] Alexandrou A. N., McGilvray T. M. and Burgos G., “Steady Herschel- Bulkley fluid flow in three dimensional expansions,” *J. Non-Newtonian Fluid Mech.*, **100**(2001) 77-96.
- [8] Ali N., Hayat T. and Sajid M., “Peristaltic flow of a couple stress fluid in an asymmetric channel”, *Biorheology*, **44**(2007), 125-138.
- [9] Barton C. and Raynor S., “Peristaltic flow in tubes”, *Bull. Math. Biophys.*, **30**(1968)663-680.

-
- [10] Batra S. K., "Sperm transport through vas deferens. Review of hypotheses and suggestions for a quantitative model", *Fertil. Steril.*, **25** (1974) 186-202.
- [11] Bhatti M. M. and Zeeshan A., "Analytic study of heat transfer with variable viscosity on solid particle motion in dusty Jeffery fluid", *Mod. Phys. Lett. B*, **30**(2016)1650196.
- [12] Bhatti M. M., Zeeshan A. and Ellahi R., "Heat transfer analysis on peristaltically induced motion of particle-fluid suspension with variable viscosity: clot blood model", *Comput. Methods Programs Biomed.*, **137**(2016) 115-124.
- [13] Bhatti M. M., Zeeshan A. and Ijaz N., "Slip effects and endoscopy analysis on blood flow of particle-fluid suspension induced by peristaltic wave", *J. Mol. Liq.*, **218**(2016) 240-245.
- [14] Bhatti M. M., Zeeshan A., Ellahi R. and Ijaz N., "Heat and mass transfer of two-phase flow with electric double layer effects induced due to peristaltic propulsion in the presence of transverse magnetic field", *J. Mol. Liq.*, **230**(2017) 237-246.
- [15] Bhatti M. M., Zeeshan A., Ellahi R., and Shit G.C., "Mathematical modeling of heat and mass transfer effects on MHD peristaltic propulsion of two-phase flow through a Darcy-Brinkman-Forchheimer porous medium", *Adv. Powder Technol.*, **29**(5)(2018) 1189-1197.
- [16] Bhatti M. M., Zeeshan A., Tripathi D. and Ellahi R., "Thermally developed peristaltic propulsion of magnetic solid particles in biorheological fluids", *Indian J. Phys.*, **92**(4) (2017) 423-430.
- [17] Bhatti M., Zeeshan A. and Ellahi R., "Simultaneous effects of coagulation and variable magnetic field on peristaltically induced motion of Jeffrey nanofluid containing gyrotactic microorganism", *Microvasc. Res.*, 110(2017a) 32-42.
- [18] Bird, R. B., Armstrong, R. C. and Hassager, O., "Dynamics of Polymeric Liquids", 2nd edition, Wiley, 1987.
- [19] Boeckxstaens G. E., "The lower oesophageal sphincter", *Neurogastroenterol Motil.*, **17**(2005)13-21.
- [20] Bohme G. and Friedrich, R., "Peristaltic flow of viscoelastic liquids", *J. Fluid. Mech.*, **128**(1983) 109-122.
- [21] Bourne M.C., Food texture and viscosity: concept and measurement, Academic press, New York, (2002).
- [22] Brasseur J. G., "A fluid mechanical perspective on esophageal bolus transport", *Dysphagia*, **2**(1987) 32-39.

-
- [23] Brasseur J. G., Corrsin S. and Lu N. Q., “The influence of a peripheral layer of different viscosity on peristaltic pumping with Newtonian fluid”, *J. Fluid Mech.*, **174**(1987) 495-519.
- [24] Burns J. C. and Parkes T., “Peristaltic motion”, *J. Fluid Mech.*, **29**(1967) 731-743.
- [25] Carew E. O. and Pedley T. J., “An active membrane model for peristaltic pumping: Part I-Periodic activation waves in an infinite tube”, *J. Biomech. Eng.*, **119**(1997) 66-76.
- [26] Carlson D. A., Beveridge C. A., Lin Z., Balla M., Gregory D., Tye M., Ritter K., Kahrilas P. J. and Pandolfino J. E., “Improved assessment of bolus clearance in patients with achalasia using high resolution impedance manometry”, *Clin Gastroenterol Hepatol*, **16** (5) (2018) 672-680.
- [27] Casson, N., “A Flow Equation for Pigment-Oil Suspensions of the Printing Ink Type”, Pergamon Press Oxford, 84-104, 1959.
- [28] Chakraborty S., Roy S., “Thermally developing electroosmotic transport of nanofluids in microchannels” *Microfluid. Nanofluidics*, **4**(2008) 501–511.
- [29] Chaube M. K., Yadav A. and Tripathi D., “Electroosmotically induced alterations in peristaltic microflows of power law fluids through physiological vessels”, *J. Braz. Soc. Mech. Sci. Eng.*, **40**(2018) 423.
- [30] Chen J., Bolus formation and swallowing, in: J. Chen and L. Engelen, Food oral processing, Blackwell publishing, UK, 139-156(2012).
- [31] Chow T. S., “Peristaltic transport in a circular cylindrical pipe”, *J. Appl. Mech.*, **37**(1970) 901-905.
- [32] Christensen J., Miftakhov R., “Hiatus hernia: A review of evidence for its origin in oesophageal longitudinal muscle dysfunction,” *Am. J. Med.*, **108**(2000) 3S–7S.
- [33] Dean W. R., “The Stream line Motion of Fluid in a Curved Pipe”, *Phil. Mag. J. Sci.*, **7**(1928) 673-695.
- [34] Ding Z., Jian Y., Wang L., Yang L., “Analytical investigation of electrokinetic effects of micropolar fluids in nanofluidic channels”, *Phys. Fluids*, **29**(2017) 082008.
- [35] Drew D. A., “Mathematical modeling of two-phase flow”, *Annu. Rev. Fluid Mech.*, **15**(1983) 261–291.
- [36] Drew D. A., “Stability of a Stokes layer of a dusty gas”, *Phys. Fluids*, **22**(1979) 2081-2086.

-
- [37] Ellahi R., Riaz A. and Nadeem S., “Three-dimensional peristaltic flow of a williamson fluid in a rectangular channel having compliant walls”, *J. Mech. Med. Biol.*, **14**(1)(2014) 1450002.
- [38] Elshehawey E. F. and El-Sebaei W., “Couple stress in peristaltic transport of a magneto- fluid”, *Physica Scripta*, **64**(2001) 401-409.
- [39] Elshehawey E. F. and Gharsseidien Z. M., “Peristaltic transport of three-layered flow with variable viscosity”, *Appl. Math. Comput.*, **153**(2004) 417-432.
- [40] Elshehawey E. F. and Husseny S. Z. A., “Peristaltic transport of a magneto-fluid with porous boundaries”, *Appl. Math. Comput.*, **129**(2002) 421-440.
- [41] Elshehawey E. F., El-Dabe N. T. and El. Desoki I. M., “Slip effects on the peristaltic flow of a non-Newtonian Maxwellian fluid”, *Acta Mech.*, **186**(2006)141-159.
- [42] Elshehawey E. F., Mekheimer Kh. S., “Couple stresses in peristaltic transport of fluids”, *J. Phys. D: Appl. Phys.*, **27**(1994) 1163-1170.
- [43] Eytan O. and Elad D., “Analysis of Intra-Uterine fluid motion induced by uterine contractions”, *Bull. Math. Biology*, **61**(1999), 221-238.
- [44] Eytan O., Jaffa A. J. and Elad D., “Peristaltic flow in a tapered channel: application to embryo transport within the uterin cavity”, *Med. Eng. And Phys.*, **23**(2001) 475-484.
- [45] Fung Y. C. and Yih C. S., “Peristaltic Transport”, *Trans. ASME E. J. Appl. Mech.*, **35**(1968) 669-675.
- [46] Fung Y. C., *Biomechanics: Circulation*, second ed., Springer Science business Media, New York, 1997.
- [47] Fung Y. C., Peristaltic pumping: a bioengineering model, in: S. Boyarsky, C.W. Gotschalk, E.A. Tanagho, P.D. Zimskind (Eds.), *Urodynamics: Hydrodynamics of the Ureter and Renal Pelvis*, Academic press, London, 1971, 178–198.
- [48] Griffiths D. J., “Flow of urine through the ureter: A collapsible, muscular tube undergoing peristalsis”, *Trans. ASME J. Biomech. Eng.*, **111**(1989) 206-211.
- [49] Guha S. K., Kaur H. and Ahmed H., “Mechanics of fluid transport in the vas deferens”, *Med. Biol. Eng.*, **13**(1975) 518-522.
- [50] Gupta B. B. and Seshadri V., “Peristaltic pumping in non-uniform tubes”, *J. Bio Mech.*, **9**(1976) 105-109.

-
- [51] Hariharan P., Seshadri V. and Banerjee R. K., “Peristaltic transport of non-Newtonian fluid in a diverging tube with different wave forms”, *Math. Comput. Model.*, **48**(2008) 998-1017.
- [52] Hayat T., Abbasi F. M., Al-Yami M. and Monaquel S., , “Slip and Joule heating effects in mixed convection peristaltic transport of nanofluid with Soret and Dufour effects”, *J. Mol. Liq.*, **194**(2014a) 93-99.
- [53] Hayat T., Ali N. and Sajid M., “Long wavelength flow analysis in a curved channel”, *Z. Naturforsch.*, **65**(3)(2010) 191-196.
- [54] Hayat T., Alvi N. and Ali N., “Peristaltic mechanism of a Maxwell fluid in an asymmetric channel”, *Nonlinear Analysis: Real World Appl.*, **9**(2008) 1474–1490.
- [55] Hayat T., Aslam N., Alsaedi A. and Rafiq M., “Numerical study for MHD peristaltic transport of Siskonanofluid in a curved channel”, *Int. J. Heat Mass Transf.*, **109**(2017a), 1281-1288.
- [56] Hayat T., Hina S. and Ali N., “Simultaneous effects of slip and heat transfer on the peristaltic flow”, *Commun. Nonlinear Sci. Numer. Simulat.*, **15**(2010) 1526-1537.
- [57] Hayat T., Nisar Z., Yasmin H. and Alsaedi A., “Peristaltic transport of nanofluid in a compliant wall channel with convective conditions and thermal radiation”, *J. Mol. Liq.*, **220**(2016) 448-453.
- [58] Hayat T., Wang Y., Siddiqui A.M., Hutter K., and Asghar S., “Peristaltic transport of a third-order fluid in a circular cylindrical tube”, *Math. Models Methods Appl. Sci.*, **12**(2002) 1691–1706.
- [59] Hayat T., Yasmin H., Ahmad B. and Chen G. Q., “Exact solution for peristaltic transport of a micropolar fluid in a channel with convective boundary conditions and heat source/sink”, *Z. Naturforsch A.* 69a(2014c) 425 – 432.
- [60] Hayat T., Yasmin, H., Ahmed, B. and Chen, B., “Simultaneous effects of convective conditions and nano particles on peristaltic motion”, *J. Mol. Liq.*, **193**(2014b) 74-82.
- [61] Hayat T., Zahir H., Tanveer A. and Alsaedi A., “Soret and Dufour effects on MHD peristaltic flow of Prandtl fluid in a rotating channel”, *Results in Phys.* **8**(2018) 1291–1300.
- [62] Herschel W. H. and Bulkley R., "Konsistenzmessungen von Gummi-Benzollösungen", *Kolloid Zeitschrift*, **39**(1926) 291–300.
- [63] Hung T. K. and Brown T. D., “Solid-Particle motion in the two dimensional peristaltic flows”, *J. Fluid Mech.*, **73**(1976) 77-97.

-
- [64] Jaffrin M. Y. and Shapiro A. H., “Peristaltic Pumping”, *Ann. Rev. Fluid Mech.*, **3**(1971) 13-37.
- [65] Jaffrin M. Y., “Inertia and streamline curvature effects on peristaltic pumping”, *Int. J. Eng. Sci.*, **11**(1973) 681-699.
- [66] Jeffrey B., Udaykumar H.S., Schulze K.S., “Flow fields generated by peristaltic reflex in isolated guinea pig ileum: impact of contraction depth and shoulders”, *Am. J. Physiol. Gastrointest. Liver Physiol.*, **285**(2003) G907-G918.
- [67] Jimenez-Lozano J., Sen M., Corona E., “Analysis of peristaltic two-phase flow with application to ureteral biomechanics”, *Acta. Mech.*, **219**(2011) 91–109.
- [68] Joohee L., James H., Christine K., Karthik R., Felicity E., Thomas C.S., David A.K., Nicholus J.T. and Jaffrey A. A., “Esophageal diameter is decreased in some patients with eosinophilic esophagitis and might increase with topical corticosteroid therapy,” *Clin. Gastroenterol. Hepatol.*, **10** (2012) 481-486.
- [69] Kahrilas P. J., Lin S., Chen J. and Manka M., “The effect of hiatus hernia on gastro-oesophageal junction pressure”, *Gut*, **44**(1999) 476-482.
- [70] Kahrilas P. J., Wu S. and Lin S., Poudereux P., “Attenuation of esophageal shortening during peristalsis with hiatus hernia”, *Gastroenterology*, **109**(1995)1818-1825.
- [71] Kothandapani M. and Prakash J., “Influence of heat source, thermal radiation, and inclined magnetic field on peristaltic flow of a hyperbolic tangent nanofluid in a tapered asymmetric channel”, *IEEE Trans. Nanobiosci.*, **14**(2015) 385–392.
- [72] Katiyar V. K. and Basavarajappa K. S., “Blood flow in the cardiovascular system in the presence of magnetic field”, *Int. J. Appl. Math. Comput. Sci.*, **9**(2002) 118–127.
- [73] Kumar S., Prasad S. K. and Banerjee J., “Analysis of flow and thermal field in nanofluid using a single phase thermal dispersion model”, *Appl. Math. Model.*, **34**(2010) 573-592.
- [74] Kumbasar B., “Carcinoma of esophagus: radiologic diagnosis and staging”, *Eur. J. Radiol.*, **42**(2002) 170–180.
- [75] Ladd A. M., Alvarez A. M., McCallum R. W. and Zuckerman M. J., “Food impaction due to nutcracker esophagus,” *Am. J. Med. Sci.*, **346**(2013) 76–79.
- [76] Lamb P. J. and Griffin S. M., *The Anatomy and Physiology of the Oesophagus*, in: W. L. Fielding and M. T. Hallissey, *Upper Gastrointestinal Surgery*, Springer, London, 1- 15(2005).

-
- [77] Latham T. W., “Fluid motion in peristaltic pump”, M S thesis, MIT, 1966.
- [78] Li M. and Brasseur J. G., “Non-steady peristaltic transport in finite-length tubes”, *J. Fluid Mech.*, **248**(1993) 129-151.
- [79] Love A. E. H., A treatise on the mathematical theory of elasticity, Cambridge University press, London, 1893.
- [80] Lykoudis P. S. and Roos R., “The fluid mechanics of the ureter from a lubrication theory point of view”, *J. Fluid Mech.*, **43**(1970) 661-670.
- [81] Maiti S. and Misra J. C., “Peristaltic flow of a fluid in a porous channel: a study having relevance to flow of bile within ducts in pathological state”, *Int. J. Eng. Sci.*, **49**(2011) 950-966.
- [82] Maiti S. and Misra J. C., “Peristaltic transport of a couple stress fluid: some applications to hemodynamics”, *J. Mech. Med. Biol.*, **12**(2012) 1250048.
- [83] Makinde O. D. and Chinyoka T., “Numerical investigation of transient heat transfer to hydromagnetic channel flow with radiative heat and convective cooling”, *Commun. Nonlinear Sci. Numer. Simulat.*, **15**(2010) 3919–3930.
- [84] Manton M. J., “Long wavelength peristaltic pumping at low Reynolds number”, *J. fluid Mech.*, **68**(1975) 467-476.
- [85] Markota A., Fluher J., Kit B., Balazic P. and Sinkovic A., “The introduction of an esophageal heat transfer device into a therapeutic hypothermia protocol: A prospective evaluation”, *Am. J. Emerg. Med.*, **34**(2016) 741–745.
- [86] Martinez-Padilla L. P., Food suspension, in: Food Engineering, (Ed. Barbosa-Canovas G.V.) Vol-II, Eloss, Oxford, 2009, p.122.
- [87] Mashimo H. and Goyal R.K., “Physiology of esophageal motility,” *GI Motility online* (2006) doi: 10.1038/gimo3.
- [88] Mekheimer K. S. and Abdelmaboud Y., “Peristaltic transport of a particle–fluid suspension through a uniform and non-uniform annulus”, *Appl. Bionics Biomech.*, **5**(2)(2008) 47-57.
- [89] Mekheimer K. S. and Abdelmaboud Y., “The influence of a micropolar fluid on peristaltic transport in an annulus: Application of the clot model”, *Appl. Bionic Biomech.*, **5**(2008a) 13-23.
- [90] Mekheimer K. S. and Abdelmaboud Y., “The influence of heat transfer and magnetic field on peristaltic transport of a Newtonian fluid in a vertical annulus: Application of an endoscope”, *Phys. Lett. A*, **372**(2008b) 1657–1665.

-
- [91] Mekheimer Kh. S., “Peristaltic flow of blood under effect of a magnetic field in a non-uniform channels”, *Appl. Math. Comput.*, **153**(2004) 763-777.
- [92] Mishra M. and Rao A. R., “Peristaltic Transport of a Newtonian fluid in an asymmetric channel”, *Z. Angew. Math. Phys.*, **53**(2003) 532-550.
- [93] Mishra M. and Rao A. R., “Peristaltic transport of a power-law fluid in a porous tube”, *J. Non-Newtonian Fluid Mech.*, **121**(2004) 163-174.
- [94] Mishra M. and Rao A. R., “Peristaltic transport in a channel with a porous peripheral layer: model of a flow in gastrointestinal tract”, *J. Biomech.*, **38** (2005) 779–789.
- [95] Misra J. C. and Maiti S., “Peristaltic transport of rheological fluid: model for movement of food bolus through esophagus”, *Appl. Math. Mech.*, **33**(2012) 315-332.
- [96] Misra J. C. and Pandey S. K., “A mathematical model for oesophageal swallowing of a food-bolus”, *Math. Comput. Model.*, **33**(2001) 997-1009.
- [97] Misra J. C. and Pandey S. K., “Peristaltic transport in a tapered tube”, *Math. Comput. Model.*, **22**(1995) 137-151.
- [98] Misra J. C. and Pandey S. K., “Peristaltic transport of a particle-fluid suspension in a cylindrical tube”, *Comput. Math. Appl.*, **28** (4)(1994) 131-145.
- [99] Misra J. C. and Pandey S. K., “Peristaltic transport of a non-Newtonian fluid with a peripheral layer”, *Int. J. Eng. Sci.*, **37**(1999) 1841-1858.
- [100] Misra J. C. and Pandey S. K., “Peristaltic flow of a multi-layered power-law fluid through a cylindrical tube”, *Int. J. Eng. Sci.*, **39**(2001a) 387-402.
- [101] Misra J. C., Mallick B. and Sinha A., “Heat and mass transfer in asymmetric channels during peristaltic transport of an MHD fluid having temperature-dependent properties”, *Alexandria Eng. J.*, **57**(2018) 391–406.
- [102] Mitra T. K. and Prasad S. N., “On the influence of wall properties and Poiseuille flow in Peristalsis”, *J. Biomech.*, **6**(1973) 681-693.
- [103] Miyamoto Y., Hanano M., Iga T., “Concentration profile in the intestinal tract and drug absorption model: two-dimensional laminar flow in a circular porous tube”, *J. Theor. Biol.*, **102** (1983) 585–601.
- [104] Muthu P., Kumar B. V. R. and Chandra P., “On the influence of wall properties in the peristaltic motion of micropolar fluid”, *The ANZIAM J.*, **45**(2003) 245-260.

-
- [105] Muthu P., Kumar B. V. R. and Chandra P., “Peristaltic motion in circular cylindrical tubes: Effect of wall properties”, *Indian J. Pure Appl. Math.*, **32**(2001) 1317-1328.
- [106] Nadeem S., Riaz A., Ellahi R. and Akbar N. S., “Effects of heat and mass transfer on peristaltic flow of a nanofluid between eccentric cylinders”, *Appl. Nanosci.*, **4**(2014), 393-404.
- [107] Nicosia M. A. and Bresseur J. G., “A Mathematical Model for Estimating Muscle Tension in vivo during Esophageal Bolus Transport”, *J. Theor. Biol.*, **219**(2002) 235–255.
- [108] Ng C. O., “Combined pressure driven and electro-osmotic flow of Casson fluid through a slit micro channel”, *J. non-Newtonian Fluid Mech.*, **198**(2013) 1-9.
- [109] Nguyen H. N., Silny J., Albers D., Roeb E., Gartung C., Rau G. and Matern S., “Dynamics of esophageal bolus transport in healthy subjects studied using multiple intraluminal impedancometry”, *Am. J. Physiol.*, **273**(1997)(Gastrointest. Liver Physiol. 36): G958–G964.
- [110] Pandey S. K. and Chaube M. K., “Peristaltic transport of a Maxwell fluid in a channel of varying cross section induced by asymmetric waves: application to embryo transport within uterine cavity”, *J. Mech. Med. Bio.*, **11**(2011b) 675-690.
- [111] Pandey S. K. and Chaube M. K., “Peristaltic Transport of a Viscoelastic Fluid in a tube of varying Cross-section”, *Math. Comput. Model.*, **52**(2010) 501-514.
- [112] Pandey S. K. and Chaube M. K., “Study of wall properties on peristaltic transport of a couple stress fluid”, *Meccanica*, **46**(2011a) 1319–1330.
- [113] Pandey S. K. and Tiwari S. K., “Swallowing of Casson fluid in Oesophagus under the Influence of Peristaltic Waves of Varying Amplitude”, *Int. J. Biomath.*, **10**(2)(2017) 1-16.
- [114] Pandey S. K. and Tripathi D., “A Mathematical Model for Peristaltic Transport of Micro-polar fluids”, *Appl. Bionics Biomech.*, **8**(2011b) 9615.
- [115] Pandey S. K. and Tripathi D., “A mathematical model for swallowing of concentrated fluids in oesophagus”, *Appl. Bionics Biomech.*, **8**(2011a) 309-321.
- [116] Pandey S. K. and Tripathi D., “Effects of non-integral number of peristaltic waves transporting couple stress fluids in finite length channels”, *Z. Naturforsch. A*, **66a**(2011d) 172-180.
- [117] Pandey S. K. and Tripathi D., “Influence of magnetic field on the peristaltic flow of a viscous fluid through a finite-length cylindrical tube”, *Appl. Bionics Biomech.*, **7**(2010d) 169-176.

-
- [118] Pandey S. K. and Tripathi D., “Peristaltic flow characteristics of Maxwell and Magneto-hydrodynamic fluids in finite channels”, *J. Biol. Syst.*, **18**(2010c) 621-647.
- [119] Pandey S. K. and Tripathi D., “Peristaltic transport of a Casson fluid in a finite channel: application to flows of concentrated fluids in oesophagus”, *Int. J. Biomath.*, **3**(4)(2010a) 453-472.
- [120] Pandey S. K. and Tripathi D., “Unsteady model of transportation of Jeffrey-fluid by peristalsis”, *Int. J. Biomath.*, **3**(4)(2010b) 473-491.
- [121] Pandey S. K. and Tripathi D., “Unsteady peristaltic flow of micro-polar fluid in a finite channel”, *Z. Naturforsch. A*, **66a**(2011c) 181-192.
- [122] Pandey S. K. and Tripathi D., “Unsteady peristaltic transport of a Maxwell fluid through finite length tube: application to oesophageal swallowing,” *Appl. Math. Mech.*, **33**(1)(2012) 15-24.
- [123] Pandey S. K., Chaube M. K. and Tripathi D., “Flow Characteristics of Distinctly Viscous Multi-layered Intestinal Fluid Motion”, *Appl. Bionics Biomech.*, **15**(2015) 1-15.
- [124] Pandey S. K., Chaube M. K. and Tripathi D., “Peristaltic transport of multilayered power-law fluids with distinct viscosities: A mathematical model for intestinal flows”, *J. Theor. Biol.*, **278**(2011) 11-19.
- [125] Pandey S. K., Chaube M. K., “Peristaltic flow of a micropolar fluid through a porous medium in the presence of an external magnetic field”, *Commun. Non-linear sci. Numer. Simulat.*, **16**(2011), 3591-3601.
- [126] Pandey S. K., Ranjan G., Tiwari S. K. and Pandey K., “Variation of pressure from cervical to distal end of oesophagus during swallowing: Study of a mathematical model”, *Math. Biosci.*, **288**(2017) 149-158.
- [127] Paterson W. G., Hynna-liepert T. T., and Selucky M., “Comparison of primary and secondary esophageal peristalsis in humans: effect of atropine,” *Am. J. Physiol.*, **260**(1991) G52-G57.
- [128] Peterson S. D., “Steady flow through a curved tube with wavy walls”, *Phys. Fluids*, **22**(2010) 023602.
- [129] Pfeffer R. and Happel J., “An analytical study of heat and mass transfer in multiparticle systems at low Reynolds number”, *Am. Inst. Chem. Eng. J.*, **10**(1964) 605-611.

-
- [130] Prakash J. and Tripathi D., “Electroosmotic flow of Williamson ionic nanoliquids in a tapered microfluidic channel in presence of thermal radiation and peristalsis” *J. Mol. Liq.*, **256** (2018) 352-371.
- [131] Prakash J., Ramesh K., Tripathi D. and Kumar R., “Numerical simulation of heat transfer in blood flow altered by electroosmosis through tapered microvessels”, *Microvasc. Res.*, **118**(2018) 162-172.
- [132] Radhakrishnamacharya G. and Murty V. R., “Heat transfer to peristaltic transport in a non-uniform channel”, *Def. Sci. J.*, **43**(1993) 275-280.
- [133] Raju K. K. and Devanathan R., “Peristaltic motion of a non-Newtonian, part-II: viscoelastic fluid”, *Rheol. Acta*, **13**(1974) 944-948.
- [134] Raju K. K. and Devanathan R., “Peristaltic motion of a non-Newtonian, part-I”, *Rheol. Acta*, **11**(1972) 170-178.
- [135] Raju K. K. and Rathna S. L., “Heat transfer for the flow of a power-law fluid in a curved pipe”, *J. Indian Inst. Sci.*, **52**(1970) 34-47.
- [136] Ramesh K. and Devakar M., “Magneto hydrodynamic peristaltic transport of couple stress fluid through porous medium in an inclined asymmetric channel with heat transfer”, *J. Magn. Magn. Mater.*, **394**(2015) 335-348.
- [137] Rani P. N. and Sarojamma G., “Peristaltic transport of a Casson fluid in an asymmetric channel”, *Australas. Phys. Eng. Sci. Med.*, **27**(2004) 49-59.
- [138] Rao A. R. and Usha S., “Peristaltic transport of two immiscible viscous fluids in a circular cylindrical tube”, *J. Fluid Mech.*, **298**(1995) 271-285.
- [139] Reddy M. G. and Makinde O. D., “Magneto hydrodynamic peristaltic transport of Jeffrey nanofluid in an asymmetric channel”, *J. Mol. Liq.*, **223**(2016) 1242-1248.
- [140] Reddy M. V. S., Rao A. R. and Sreenadh S., “Peristaltic motion of a power-law fluid in an asymmetric channel”, *Int. J. Non-Linear Mech.*, **42**(10)(2007)1153-1161.
- [141] Rubinow S. I. and Keller J. B., “Flow of a viscous fluid through an elastic tube with application to blood flow”, *J. Theor. Biol.* **35**(1972) 299–313.
- [142] Sanyal D.C. and Biswas A., “Two dimensional peristaltic motion of blood through a circular tube”, *Bull. Soc. Math. Banjaluka*, **17**(2010) 43–53.
- [143] Sato H., Kawai T., Fujita T. and Okabe M., “Two dimensional peristaltic flow in curved channels”, *Trans. Japan Soc. Mech. Eng. B*, **66**(2000) 679-685.

-
- [144] Schit G. C., Mondal A., Sinha A. and Kundu P.K., “Electro-osmotic flow of power-law fluid and heat transfer in a micro-channel with effects of Joule heating and thermal radiation”, *Physica A*, **462**(2016) 1040–1057.
- [145] Selvi C. K. and Srinivas A.N.S., “Pulsatile flow of Jeffrey fluid in a porous elastic tube with variable cross- section under the effect of magnetic field”, *Thermal Sci. Eng. Progress* **8**(2018) 439-447.
- [146] Selvi C. K., Srinivas A.N.S. and Sreenadh S., “Peristaltic transport of a power-law fluid in an elastic tube”, *J. T. U. Sci.* **12**(2018) 687-698.
- [147] Shapiro A. H., Jafferin M. Y. and Weinberg S. L., “Peristaltic pumping with long wavelengths at low Reynolds number”, *J. Fluid Mech.*, **35**(1969) 669-675.
- [148] Shehzad S. A., Abbasi F. M., Hayat T. and Alsaadi F., “Peristalsis in a curved channel with slip condition and radial magnetic field”, *Int. J. Heat Mass Transf.*, **91**(2015) 562-569.
- [149] Sheikholeslami M., Ziabakhsh Z. and Ganji D. D., “Transport of Magneto hydrodynamic nanofluid in a porous media”, *Colloids Surf.*, **520**(2017) 201-212.
- [150] Siddiqui A., Asghar S. and Hayat T. “Moving boundary in a non-Newtonian fluid”, *Int. J. Non-Linear Mech.*, **37**(2002) 75–80.
- [151] Siddiqui A. A., and Lakhtakia A., “Non-steady electro-osmotic flow of a micro polar fluid in a micro channel”, *J. Phys. A: Math. Theor.*, **42**(2009) 355501.
- [152] Sinha A., Shit G. C. and Ranjit N. K., “Peristaltic transport of MHD flow and heat transfer in an asymmetric channel: Effects of variable viscosity, velocity-slip and temperature jump”, *Alexandria Eng. J.*, **54**(2015) 691-704.
- [153] Sochi T., “The flow of Newtonian and power law fluids in elastic tubes”, *Int. J. Non-Linear Mech.*, **67**(2014) 245–250.
- [154] Spechler S. J. and Castell D. O., “Classification of oesophageal motility abnormalities”, *Gut*, **49**(2001)145-151.
- [155] Sreenadh S., Shankar C. U. and Pallavi A. R., “Effects of wall properties and heat transfer on the peristaltic transport of food bolus through oesophagus: a mathematical model”, *Int. J. of Appl. Math and Mech.*, **8**(2012) 93-108.
- [156] Srinivas S. and Kothandapani M., “The influence of heat and mass transfer on MHD peristaltic flow through a porous space with compliant walls”, *Appl. Math. Comput.*, **213**(1)(2009) 197-208.

-
- [157] Srinivas S., Gayathri R. and Kothandapani M., “The influence of slip conditions, wall properties and heat transfer on MHD peristaltic transport”, *Comput. Phys. Commun.*, **180**(2009) 2115-2122.
- [158] Srinivasacharya D., Mishra M. and Rao A. R., “Peristaltic pumping of a micropolar fluid”, *Acta Mech.*, **161**(2003) 165-178.
- [159] Srivastava L. M. and Srivastava V. P., “Peristaltic transport of a two layered model of a physiological fluid”, *J. Biomech.*, **15**(1982) 257-265.
- [160] Srivastava L. M. and Srivastava V.P, “Peristaltic transport of blood: Casson model-II”, *J. Biomech.*, **17**(1984) 821–829.
- [161] Srivastava L. M. and Srivastava V. P., “Peristaltic transport of a particle-fluid suspension”, *J. Biomech. Eng.*, **111**(1989) 157-165.
- [162] Srivastava L. M. and Srivastava V. P., “Peristaltic Transport of a non-Newtonian fluid: Application to the vas deferens and small intestine”, *Ann. Biomed. Eng.*, **13**(1985) 137-153.
- [163] Srivastava V. P. and Srivastava L. M., “Influence of wall elasticity and poiseuille flow on peristaltic induced flow of a particle-fluid mixture”, *Int. J. Eng. Sci.*, **35**(1997) 1359-1386.
- [164] Srivastava, L. M., “Peristaltic transport of a couple-stress fluid”, *Rheol. Acta*, **25**(6)(1986) 638-641.
- [165] Stokes V. K., “Couple stress fluid”, *Phys. Fluid*, **9**(1966) 1709-1715.
- [166] Shukla J. B., Parihar R. S., Rao B. R. P. and Gupta S. P., “Effects of peripheral-layer viscosity on peristaltic transport of a bio-fluid”, *J. Fluid Mech.*, **97**(1980) 225-237.
- [167] Takabatake S. and Ayukawa K., “Numerical study of two-dimensional peristaltic flows”, *J. Fluid Mech.*, **122**(1982), 439-465.
- [168] Takabatake S., Ayukawa K. and Mori A., “Peristaltic pumping in circular cylindrical tubes: a numerical study of fluid transport and its efficiency”, *J. Fluid Mech.*, **193**(1987) 267-283.
- [169] Tang G., Ye P. and Tao W., “Pressure driven and electro-osmotic non-Newtonian flows through micro porous media via lattice Boltzmann method”, *J. non-Newtonian Fluid Mech.*, **165**(2010) 1536-1542.
- [170] Toklu E., “A new mathematical model of peristaltic flow on esophageal bolus transport”, *Sci. Res. Essays*, **6**(31)(2011) 6606-6614.

-
- [171] Tripathi D., “A mathematical model for swallowing of food bolus through the oesophagus under the influence of heat transfer”, *Int. J. Therm. Sci.*, **51**(2012) 91-101.
- [172] Tripathi D., Beg O. A. and Gupta P. K., “DTM simulation of peristaltic viscoelastic biofluid flow in asymmetric porous media: a digestive transport model”, *J. Bionic Eng.*, **12**(2015) 643-655.
- [173] Tripathi D., Hayat T., Ali N. and Pandey S. K., “Effects of transverse magnetic field on the peristaltic transport of viscoelastic fluid with Jeffrey model in a finite length channel”, *Int. J. Mod. Phys. B*, **25**(2011) 3455-3471.
- [174] Tripathi D., Pandey S. K. and Beg O. A., “Mathematical modelling of heat transfer Effects on swallowing dynamics of viscoelastic food bolus through the human oesophagus”, *Int. J. Therm. Sci.*, **70**(2013) 41-53.
- [175] Tripathi D., Pandey S. K., Siddiqui A. and Beg O. A., “Non-steady peristaltic propulsion with exponential variable viscosity: a study of transport through the digestive system”, *Comput. Methods Biomech. Biomed. Eng.*, **17**(2014) 591-603.
- [176] Tripathi D., Sharma A. and Bég O. A., “Electrothermal transport of nanofluids via peristaltic pumping in a finite micro-channel: Effects of Joule heating and Helmholtz-Smoluchowski velocity”, *Int. J. Heat Mass Transf.*, **111** (2017) 138–149.
- [177] Tripathi D., Sharma A., Bég O. A. and Tiwari A., “Electrothermal Transport in Biological Systems: An Analytical Approach for Electrokinetically-Modulated Peristaltic Flow”, *J. Therm. Sci. Eng. Appl.*, **9** (4) (2018) 041010.
- [178] Uddin J., Sohail A., Beg O. A. and Ismail M. D., “Modeling and simulation of the nanofluid transport via elastic sheets”, *Biomed. Eng.: Appl. Basis Commun.*, **30** (2018) 1850033.
- [179] Vajravelu K., Radhakrishnamacharya G. and Murty V. R., “Peristaltic flow and heat transfer in a vertical porous annulus, with long wave approximation”, *Int. J. Non-Linear Mech.*, **42**(2007) 754 – 759.
- [180] Vajravelu K., Sreenadh S. and Babu V. R., “Peristaltic pumping of Herschel-Bulkley fluid in channel”, *Appl. Math. Comput.*, **169**(2005a) 726-735.
- [181] Vajravelu K., Sreenadh S. and Babu V. R., “Peristaltic transport of Herschel-Bulkley fluid in an inclined tube”, *Int. J. Non-Linear Mech.*, **40**(2005b), 83-90.
- [182] Vajravelu K., Sreenadh S., Devaki P. and Prasad K.V., “Mathematical model for a Herschel-Bulkley fluid flow in an elastic tube”, *Cent. Eur. J. Phys.* **9**(2011) 1357–1365.

-
- [183] Vajravelu K., Sreenadh S., Rajanikanth K., Lee C., “Peristaltic transport of a Williamson fluid in asymmetric channels with permeable walls”, *Nonlinear Anal. Real World Appl.*, **13**(2012) 2804-2822.
- [184] Victor S. A. and Shah V. L., “Heat transfer to blood flowing in a tube”, *Biorheology*, **12**(1975) 361-368.
- [185] Wang Y., Ali N. and Hayat T., Peristaltic motion of a magneto-hydrodynamic generalized second-order fluid in an asymmetric, *Numer. Methods Partial Differ. Equ.*, **27**(2009) 415-435.
- [186] Waters S. L. and Guiot C., “Flow in an Elastic Tube Subject to Prescribed Forcing: A Model of Umbilical Venous Flow”, *J. Theor. Med.*, **3**(2001) 287-298.
- [187] Weyenberg S.J.B.V., “Diagnosis and grading of sliding hiatal hernia,” *Video J. Encyclo. GI Endos.*, **1**(2013)117-119.
- [188] Wright, S., Keele, C. A., Neil, E., and Joels, N., Samson Wright's Applied physiology, Oxford, Oxford University Press, 1982.
- [189] Xia F., Mao J., Ding J. and Yang H., “Observation of normal appearance and wall thickness of esophagus on CT Images”, *Eur. J. Radiol.*, **72**(2009), 406-411.
- [190] Young T., “Hydraulic investigations, subservient to an intended croonian lecture on the motion of blood”, *Phil. Trans. R. Soc. Lond.*, **98**(1808) 164-186.
- [191] Yin F. C. P. and Fung Y. C., “Comparison of theory and experiment in peristaltic Transport”, *J. Fluid Mech.*, **47**(1971) 93–112.
- [192] Zalosh R. G. and Nelson W. G., “Pulsating flow in a curved tube”, *J. Fluid Mech.*, **59**(1973) 693-705.
- [193] Zapryanov Z., Christov Ch. and Toshev E., “Fully developed laminar flow and heat transfer in curved tubes”, *Int. J. Heat Mass Transf.*, **23**(1980) 873-880.
- [194] Zeeshan A., Ijaz N., Bhatti M. M. and Mann A. B., “Mathematical study of peristaltic propulsion of solid–liquid multiphase flow with a bio rheological fluid as the base fluid in a duct”, *Chinese J. Phys.*, **55**(4)(2017) 1596-1604.
- [195] Zeeshan A., Fatima A., Khalid F. and Bhatti M. M., “Interaction between blood and solid particles propagating through a capillary with slip effects”, *Microvasc. Res.*, **119**(2018) 38-46.

