

- pressure inlet and number of nozzle intake on vortex tube performance-Validation and CFD optimization. *Energy* 63: 195-204. <https://doi.org/10.1016/j.energy.2013.09.060>
- [9] Pourmahmoud N, Abbaszadeh M, Rashidzadeh M. (2016). Numerical simulation of effect of shell heat Transfer on the vortex tube performance. *International Journal of Heat and Technology* 34(2): 293-301. <https://doi.org/10.18280/ijht.340220>
- [10] Pourmahmoud N, Esmaily R, Hassanzadeh A. (2015). CFD investigation of vortex tube length effect as a designing criterion. *International Journal of Heat and Technology* 33(1): 129-136. <https://doi.org/10.18280/ijht.330118>
- [11] Ayenehpour SERS, Sadeghiazad MM. (2016). A study on the optimization of the angle of curvature for a Ranque-Hilsch vortex tube, using both experimental and full Reynolds stress turbulence numerical modeling. *Heat and Mass Transfer* 52(2): 337-350.
- [12] M. Rahimi, Rafiee SE, Pourmahmoud N. (2013). Numerical investigation of the effect of divergent hot tube on the energy separation in a vortex tube. *International Journal of Heat and Technology* 31(2): 17-26.
- [13] Rafiee SE, Rahimi M, Pourmahmoud N. (2013). Three-dimensional numerical investigation on a commercial vortex tube based on an experimental model- part I: Optimization of the working tube radius. *International Journal of Heat and Technology* 31(1): 49-56.
- [14] Rafiee SE, Sadeghiazad MM. (2015). 3D numerical analysis on the effect of rounding off edge radius on thermal separation inside a vortex tube. *International Journal of Heat and Technology* 33(1): 83-90.
- [15] Pourmahmoud N, Hasanzadeh A, Rafiee SE, Rahimi M. (2012). Three dimensional numerical investigation of effect of convergent nozzles on the energy separation in a vortex tube. *International Journal of Heat and Technology* 30(2): 133-140.
- [16] Pourmahmoud N, Rafiee SE, Rahimi M, Hasanzadeh A. (2013). Numerical energy separation analysis on the commercial Ranque-Hilsch vortex tube on basis of application of different gases. *Scientia Iranica*. 20(5): 1528-1537.
- [17] Rafiee SE, Sadeghiazad MM. (2016). Three-dimensional CFD simulation of fluid flow inside a vortex tube on basis of an experimental model- The optimization of vortex chamber radius. *International Journal of Heat and Technology* 34(2): 236-244. <https://doi.org/10.18280/ijht.340212>
- [18] Rafiee SE, Sadeghiazad MM. (2016). Three-dimensional numerical investigation of the separation process inside vortex tube using different operating conditions. *Journal of Marine Science and Application*, First online 6: 1-10. <https://doi.org/10.1007/s11804-016-1348-8>
- [19] Rafiee SE, Sadeghiazad MM. (2014). Effect of conical valve angle on cold-exit temperature of vortex tube. *Journal of Thermophysics and Heat Transfer* 28: 785-794. <https://doi.org/10.2514/1.T4376>
- [20] Rafiee SE, Sadeghiazad MM. (2014). Three-dimensional and experimental investigation on the effect of cone length of throttle valve on thermal performance of a vortex tube using k- ϵ turbulence model. *Applied Thermal Engineering* 66(1-2): 65-74. <https://doi.org/10.1016/j.applthermaleng.2014.01.073>
- [21] Rafiee SE, Sadeghiazad MM, Mostafavinia N. (2015). Experimental and numerical investigation on effect of convergent angle and cold orifice diameter on thermal performance of convergent vortex tube. *J. Thermal Sci. Eng. Appl.* 7(4). <https://doi.org/10.1115/1.4030639>
- [22] Rafiee SE, Sadeghiazad MM. (2017). Efficiency evaluation of vortex tube cyclone separator. *Applied Thermal Engineering* 114(5): 300-327. <https://doi.org/10.1016/j.applthermaleng>
- [23] Rafiee SE, Sadeghiazad MM. (2017). Experimental and 3D-CFD investigation on optimization of the air separator structural parameters for maximum separation efficiency. *Separation Science and Technology* 52(5): 903-929. <https://doi.org/10.1080/01496395.2016.1267755>
- [24] Rafiee SE, Sadeghiazad MM. (2016). Experimental study and 3D CFD analysis on the optimization of throttle angle for a convergent vortex tube. *Journal of Marine Science and Application* 15(4): 388-404. <https://doi.org/10.1007/s11804-016-1387-1>
- [25] Rafiee SE, Sadeghiazad MM. (2016). Experimental and 3D-CFD study on optimization of control valve diameter for a convergent vortex tube. *Frontiers in Heat and Mass Transfer* 7(1): 1-15. <https://doi.org/10.5098/hmt.7.13>
- [26] Rafiee SE, Sadeghiazad MM. (2016). Experimental and 3D CFD investigation on energy separation inside a convergent vortex tube air separator. *Scientia Iranica* 23(4).
- [27] Rafiee SE, Sadeghiazad MM. (2014). 3D CFD exergy analysis of the performance of a counter flow vortex tube. *International Journal of Heat and Technology* 32(1-2): 71-77.
- [28] Rafiee SE, Rahimi M. (2014). Three-dimensional simulation of fluid flow and energy separation inside a vortex tube. *Journal of Thermophysics and Heat Transfer* 28: 87-99. <https://doi.org/10.2514/1.T4198>
- [29] Lorenzini E, Spiga M. (1982). Aspetti fluidodinamici della separazione isotopica mediante tubi a vortice di Hilsch Ingegneria, (5-6): 121-126 (maggio-giugno).
- [30] Rafiee SE, Sadeghiazad MM. (2017). Experimental and 3D CFD investigation on heat transfer and energy separation inside a counter flow vortex tube using different shapes of hot control valves. *Applied Thermal Engineering* 110: 648-664.
- [31] Pourmahmoud N, Rahimi M, Rafiee SE, Hassanzadeh A. (2014). A numerical simulation of the effect of inlet gas temperature on the energy separation in a vortex tube. *Journal of Engineering Science and Technology* 9(1): 81-96.
- [32] Mirandola A, Lorenzini E. (2016). Energy, environment and climate: From the past to the future. *International Journal of Heat and Technology* 34(2): 159-164. <https://doi.org/10.18280/ijht.340201>
- [33] Skye HM, Nellis GF, Klein SA. (2006). Comparison of CFD analysis to empirical data in a commercial vortex tube. *Int. J. Refrig* 29: 7180. <https://doi.org/10.1016/j.ijrefrig.2005>