

REFERENCE LIST

1. J. M. Coulson & J. F. Richardson, "Equipment Selection, Specification and Design," in *Chemical Engineering Design*, 4th ed. Oxford, UK, 2003, ch.10, pp. 450-458.
2. C. D. Cooper, F. H. Alley, "Cyclones," in *Air pollution control- a design approach*, 2nd ed. Waveland, 1994, ch.4, pp. 1127-147.
3. R. H. Perry and D. W. Green, " Gas-Solid Separations," in *Perry's Chemical Engineers' Handbook*, 7th ed. McGraw-Hill, 1997, ch.17, pp. 17.23-17.31.
4. A. J. Ter Linden, "Cyclone dust collectors," Proc. Inst. Mech. Eng.160, 1949.
5. C. B. Shepherd, C. E Lapple, "Flow pattern and pressure drop in cyclone dust collectors", 1939.
6. J. Hoekstra, J. J. Derksen, and H. E. A. Van Den, "An experimental and numerical study of turbulent swirling flow in gas cyclones," *Chemical Engineering Science*, 1999.
7. R. M. Alexander, "Fundamentals of Cyclone Design and Operation", Proc. Aus. Inst. Min. Met. 1949, pp.152-228.
8. W. Licht, " Control of Particles by Mechanical Collectors", in *Handbook of Air pollution Technology*, S. Calvert and H.m. Englund, Eds, New York: Wiley,1984, cp.13.
9. K. Woodard, "Stationary Source Control Techniques Document for Fine Particulate Matter," U.S. Environmental Protection Agency, 1998, PP-5.1-5.1-34
10. Air & Waste Management Association, "Air Pollution Engineering Manual," Van Nostrand Reinhold, New York. NY, 1992.
11. Boysan, W.H. Ayer, and J.Swithenbank, "Fundamental mathematical-modeling approach to cyclone design," Transaction of Institute Chemical Engineers, 1982.
12. J.G. Bernard, J. Andries, and B.Scarlett, "Cyclone research for application at high temperatures and pressures," in *1st European Symposium Separation of Particles from Gases*, 1989.
13. A.C. Hoffmann, M. de Groot and A. Hospers, "The effect of the dust collection system on the flow pattern and separation efficiency of a gas cyclone," 1996.

14. J. Hoekstra, J. J. Derksen, and Van de Akker, "Gas flow field and collection efficiency of cyclone separators," 2000.
15. L.X. Zhou and S. L. Soo, "Gas-solid flow and collection of solid in a cyclone separator," 1990.
16. B. Wang, D.L. Xu, K.W. Chu, and A.B. Yu, "Numerical study of gas-solid flow in a cyclone separator," in *Third International Conference on CFD in the Minerals and Process Industry*, Australia, 2003.
17. N. Fathizadeh, A. Mohebbi, S. Soltaninejad and M. Iranmanesh, "Design and simulation of high pressure cyclones for a gas city gate station using semi-empirical models, genetic algorithm and computational fluid dynamics," *Journal of Natural Gas Science and Engineering*, 2015.
18. K. Versteeg and W. Malalasekera, *An Introduction to Computational Fluid Dynamics*, 2nd ed. Harlo: Pearson Education Limited, 2007.
19. E. Launder and D. B. Spalding, "The numerical computation of turbulent flows," *Computer Methods in Applied Mechanics and Engineering*, 1974.
20. J. V. Boussinesq, "Essay on The Theory of Running Water," *Memories Presented by Various Scholars has Achedamy Sciences XXIII*, 1877, IEEE Transl.
21. M. J. Andrews and P. J. O'Rourke, "The Multiple Particle-In-Cell Method for Dense particle flows," 1996.
22. M Sinder, "An Incompressible Three Dimensional Multiple Particle-In-Cell Method for Dense particle flows," *Journal of Computational Physics*, 2001.
23. L. Iozia and D. Leith, "Effect of cyclone dimensions on gas flow pattern and collection efficiency," in *Aerosol Science and Technology*, 1989.
24. *OpenFOAM user guide*, Version 2.2.0., The open source CFD toolbox, 2013.
25. *Programmer's guide*, Version 2.1.1., The open source CFD toolbox, 2012.
26. J. Smagorinski, "General circulation experiments with the primitive equations", 1963.
27. V. Singh et al, "Simulation of gas-solid flow and design modifications of cement plant cyclones", in *Fifth International Conference on CFD in the Process Industries*, CSIRO, Melbourne, Australia, 2006.



28. D. Papoulias, S. Lob, "Advances in cfd modeling of multiphase flows in cyclone separators", 2015.
29. D. B. Dias, M. Mori and W. P. Martignoni, "Boundary condition effects in CFD cyclone simulations"
30. K.W. Chu et al, "CFD–DEM simulation of the gas–solid flow in a cyclone separator" *Chemical Engineering Science*, vol. 66, pp. 834-847, 2011.
31. P. A. Funk, S. Ed Hughs and G. A. Holt, "Engineering and ginning- Entrance velocity optimization for modified dust cyclones", *The Journal of Cotton Science* vol.4, pp.178-182, 2000.
32. G. Gronald and J.J. Derksen, "Simulating turbulent swirling flow in a gas cyclone: a comparison of various modeling approaches", 2010.
33. J. J. Derksen, "LES for swirling flow in separation devices"
34. J. J. Derksen, "Separation performance predictions of a stairmand high-efficiency cyclone", *AIChE Journal*, Vol. 49, No. 6, pp. 1359-1376, 2003.
35. A. H. B. Badarisman, *Modeling of high efficiency miniature aerocyclone*, B.Sc. thesis, Univ. of Malayasia Phang, Malayasia, 2010.
36. E. A. R. Stendal, *Multiphase flows in cyclone separators: modeling the classification and drying of solid particles using CFD*, M.Sc. thesis, Chalmers Univ. of technology, Gothenburg, Sweden, 2013.
37. Liang Ma et al, "CFD simulation study on particle arrangements at the entrance to a swirling flow field for improving the separation efficiency of cyclones", *Aerosol and Air Quality Research*, vol.15, pp. 2456–2465, 2015.
38. L. Wang, *Theoretical study of cyclone design*, PhD Dissertation, Texas A&M Univ., 2004.
39. Wikipedia. (2015, December 15). *Blender(software)* [Online] Available: [https://en.wikipedia.org/wiki/Blender_\(software\)](https://en.wikipedia.org/wiki/Blender_(software))