

Continuous Distillation

Nilesh R. Nagose¹, Harsh Divedia², Pritish Pitale³

Guide, Department of Chemical Engineering¹

Students, Department of Chemical Engineering^{2,3}

SVKM's Shri Bhagubhai Mafatlal Polytechnic, Mumbai, Maharashtra, India

Abstract: *In the present study, a Distillation process separate two components namely Toluene and Benzene is being performed. The distillation experiments are carried out on the DWSIM software. Where we learn to create a material stream in DWSIM. The types of distillation performed on DWSIM include Shortcut distillation, Rigorous Distillation. Process equipment includes suction scrubber compressor discharge cooler mixture and value the major difference between the booster compression and sales as compression are the operating pressure temperature and chemical composition of gas production the flow sheet of sale gas compression and export in DWISM. We specifically focus on the simulation of chemical process using the modelling software to evaluate thermal and chemical behaviour of the system which uses the chemical processes related to offshore petroleum production facilities as an example to demonstrate the software capabilities of DWSIM.[1].*

Keywords: Distillation, DWSIM.

REFERENCES

- [1]. M. Levey. "Chemistry and Chemical Technology in Ancient Mesopotamia". Elsevier, 1959, pp. 36.
- [2]. J.D. Seader, J.H. Ernest, Separation Process Principles, 2nd ed., John Wiley and Sons, Inc. New York, USA, 2001.
- [3]. C. Lyon, "Methanol Recovery Optimization Via Distillation", Final Project Report, ChE 460 G.G. Brown Industries Inc. 2012.
- [4]. A. K. Jana, Process Simulation and Control using ASPENTM, 1st ed, PHI Learning Private Limited, New Delhi, India, 2009.
- [5]. C.D. Holland, Fundamentals of Multi Component Distillation, 1st edition, McGraw-Hill Book Company