



Design Of Different Equipment

By Yasabie Abatneh

GRIN Verlag Apr 2013, 2013. Taschenbuch. Book Condition: Neu. 210x148x4 mm. This item is printed on demand - Print on Demand Neuware - Seminar paper from the year 2013 in the subject Engineering - Chemical Engineering, printed single-sided, grade: -, Wollo University (Kombolcha Institute Of Technology), course: Proecess Apparatus Design, language: English, abstract: As it was shown in the design set up, the design project contains some parts of typical plant unit operations that could be designed by the given data s. In this paper the design analysis begins from the distillation column, by collecting data s such as the vapor liquid equilibrium of the mixture and the physical properties of the mixture from chemical engineering handbooks [Perry].The McCabe Thiele method is used to determine the number of theoretical stages by plotting the operating and stripping line .The column diameter, perforations and tray spacing also designed. Next, the heat exchanger design was done (U-tube) for heating purpose. By using a steam as a heating media and the type of material of construction, tube side and shell side pressure drops, generally thermal and mechanical designs is done. Similar procedure was followed for heat exchanger two (condenser). 64 pp. Englisch.

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