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In designing a distillation column, the thermodynamics of the vapor and liquid phases must be understood. The vapor-liquid equilibrium (VLE) determines the minimum number of stages required to achieve the degree of separation needed. The minimum reflux ratio also depends on the VLE data of the mixture.

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The design of trays depends on the density, the rate of vapor and liquid through the tray. Each tray in a distillation column is designed to promote contact between the vapor and liquid on the stage, so there is mass and heat transfer. Ideally, the vapor and liquid leaving the stage are in equilibrium.

Distillation Column Tray Hydraulics ... - Kolmetz.com

For an initial design, it is adequate to set the distillation pressure to as low a pressure above ambient as allowed by cooling water or air cooling in the condenser. An initial starting value might be selected so that the bubble point of the overhead product is 10oC above the summer cooling water temperature. 2.

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This design guideline covers the basic elements in designing a typical distillation column system, which includes column internals selection and sizing. In designing a distillation column, the...

(PDF) Distillation Column Selection, Sizing and ...

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air separation units (engineering design guideline ...

Crude distillation unit (CDU) is at the front-end of the refinery, also known as topping unit, or atmospheric distillation unit. It receives high flow rates hence its size and operating cost are ...

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Design, modeling and simulation have been conducted for the examined extractive distillation configurations and the optimum design is selected based on minimum total annual cost as the objective ...

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