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This complete revision of Applied Process Design for Chemical and Petrochemical Plants, Volume 1 builds upon Ernest E. Ludwig's classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals. This new edition includes important supplemental mechanical and related data, nomographs and charts.

[Capital Cost Estimator - DWSIM - Chemical Process Simulator](#)

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Variable costs can be greatly cut through optimization techniques and intelligent plant design (Towler and Sinnott, 2013). Raw Materials Cost . Calculating the annual cost of a raw material is calculated by simply multiplying the feed rate of the process by the appropriate price per volume or mass. These are the costs of chemical feed stocks required by the process. Feed stocks flow rates are ...

[Tubular Exchanger Manufacturers Association - Wikipedia](#)

A theoretical plate in many separation processes is a hypothetical zone or stage in which two phases, such

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as the liquid and vapor phases of a substance, establish an equilibrium with each other. Such equilibrium stages may also be referred to as an equilibrium stage, ideal stage, or a theoretical tray. The performance of many separation processes depends on having series of equilibrium stages ...

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Reflujo en destilación industrial. El término reflujo [1] [3] [4] es muy utilizado en industrias que utilizan columnas de destilación y fraccionadores a gran escala, tales como refinerías de petróleo, plantas petroquímicas y químicas, y plantas de

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procesamiento de gas natural.. En ese contexto, reflujo se refiere a la porción del producto líquido superior de una columna de ...

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