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Instructions for file "EQUIPMENT COSTS" accompanying Plant Design and Economics for Chemical Engineers, 5th edition, Peters, Timmerhaus, and West . 1. The opening sheet of the file EQUIPMENT COSTS is called CALCULATION PAGE. The column at the left lists equipment types alphabetically. The names used are the same as those on the cost figures in the text. CLICK a name to SELECT an EQUIPMENT ...

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Cost estimating advice · Perry's Chemical Engineers' Handbook (8th Edition) or 7th Edition Chapter 9. Includes capital costs for several plants, equations for some equipment, etc. · Oil & Gas Journal (search plant costs, chemical prices, Nelson-Farrar refinery construction index, refinery operating costs) · Quizzes, glossary, equipment cost estimator

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described below, which is given in a book by Peters, Timmerhaus, and West (1). This book also provides much valuable information on the design of such heat exchangers, including more sophisticated methods of estimating the pressure drop. The pressure drop on the shell-side is calculated using . 2 ()
 $0.14 \frac{2}{1} \frac{ss}{B} \frac{shell}{e} \frac{s}{f} \frac{G}{D} \frac{N}{P} \frac{D}{\mu} \frac{\mu}{\mu} + \frac{\mu}{\mu} =$ In this equation, f is a Fanning friction ...

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Chemical plant cost indexes are dimensionless numbers employed to updating capital cost required to erect a chemical plant from a past date to a later time, following changes in the value of money due to inflation and deflation. Since, at any given time, the number of chemical plants is insufficient to use in a preliminary or predesign estimate, cost indexes are handy for a series of ...

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exposure to process economics Can begin with cost accounting gives a good view of corporate finances and considerations when evaluating a potential design. Given limited time begin with equipment sizing and capital cost estimation. Again, coverage depends on previous exposure to sizing of: Pressure vessels, heat exchangers, pumps, compressors, etc. PRODUCT and PROCESS DESIGN LECTURE 06 ...

[Design of condenser - SlideShare](#)

Peters, Max., Klaus, Timmerhaus, and West, Ronald, "Plant Design and Economics for Chemical Engineers," 5th ed. McGraw Hill., New York, p. 516, 2003. 7. Dean Brothers Pumps Inc., Net Positive Suction Head and the use of Suction Specific Speed to Avoid Cavitation, Pump Talk, Indianapolis, Ind., 1982. Authors . Joseph "Joey" Sarver is currently pursuing a M.S. degree in chemical ...