

General Process Plant Cost Estimating Engineering

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Cost estimation is a specialized subject and a profession in its own right, but the design engineer must be able to make rough cost estimates to decide between project alternatives and optimize the...

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Cost estimation may be defined as the process of forecasting the expenses that must be incurred to manufacture a product. These expenses take into consideration all expenditures involved in design and manufacturing with all the related service facilities such as pattern making, tool making as well as portion of the general administrative and selling costs.

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As a rough average, land costs for industrial plants amount to 4 to 8 percent of the. These design guideline are believed to be as accurate as possible, but are very general and not for specific design cases. They were designed for engineers to do preliminary designs and process specification sheets.

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ESTIMATING PLANT CAPITAL COST. TOTAL PLANT CAPITAL COST TIC = Equipment & Materials Costs +. 709.2-2SC-003-2 PROCESS EQUIPMENT @ 50% Scale Platform 709.2-2SC-003-2 UTILITIES @ 50% Scale Platform HIPPO New MTO PROCESS PIPEWORK (4.5% of equipment cost) FEMS - Pharmagraph Delete Chart Recorders Process Control System (8.9% of equipment cost) Process Instruments (3.4% of equipment cost) Process MCC (1.8% of equipment cost) SUB TOTAL PROCESS SUB DIRECT COSTS (DCC) 12,572,593 250,000 130,000 ...

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Once individual equipment costs are known from either manufacturers ' price quotations or estimating charts as discussed in the previous chapter, they can be utilized to form preliminary total plant cost estimates. A suggested sequence for obtaining such estimates is as follows: 1.

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vast, comprehensive tabulation of estimating cost data presented in the March 24, 1969 issue of Chemical Engineering magazine. This article by K.M. Guthrie is entitled " Data and Techniques for Preliminary Capital Cost Estimating ". While the source for the concept and the presented

Process Equipment Cost Estimating by Ratio and Proportion

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In general, it is not practical or cost-effective to use IPE for the assessment of cost estimates contained in proposals for novel processes or in generating rough cost estimates from laboratory scale data. Instead, the factored estimation methodology, a cost-effective methodology widely used in industry, is more suitable for that application.

Process Equipment Cost Estimation Final Report

Richardson™ 's 4,000 page, Process Plant Construction Cost Estimating Standards (PPCES) is available on CD-ROM in Adobe Acrobat PDF file only (read or print only and non-database) and on line at CostDataOnLine.com. PPCES offers the complete and current cost estimating standards for Chemical Plants, Manufacturing Facilities, Solids Processing, Water Treatment Plants and General Construction.

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While the Lang factors are quite old, they are still useful for checking estimates of process plant construction costs. Lang predicted total plant construction cost based upon the delivered cost of plant equipment. The factors are 3.1 for solids processing plants (a coal preparation plant for example) 3.63 for a solid-fluids process plant (a coal gasification plant would be an example) 4.74 for a fluids processing plant (such as an oil refinery).

Lang Factors for Cost Estimates - Industrial/Mfg ...

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B.2.2 Overview of the Cost Estimating Process Traditionally, cost estimates are produced by gathering input, developing the cost estimate and its documentation, and generating necessary output. Table B-1 explains the GAO cost estimating process steps that should be followed if accurate and credible cost estimates are to be developed.

Appendix B - Cost Estimating and Best Practices.

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