

Process Equipment Cost Estimating by Ratio and Proportion

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Randall W. Whitesides, P.E.

Course Overview

Students of this one-hour course will be provided with two simple methods to arrive at approximate equipment costs during preliminary estimate preparation.

Learning Objective

At the conclusion of this course the student will:

- Understand the applicability of ratio and proportion estimating methods;
- Learn the technique to factor costs to correspond to varying equipment sizes and capacities;
- Learn the technique to escalate or otherwise adjust historical costs.

Intended Audience

This course is intended for anyone involved with cost estimate generation.

Benefits for Attendees

This course will provide new methods of estimating for some and refresher information for others. The course material can be used as a reference source for actual future situations.

The course includes a true-false test at the end.

Introduction

This course provides the student with an understanding of the estimating technique known as *The Rule of Six-tenths* and when appropriate, use of this rule in combination with cost indices. The various types of estimates are discussed as prerequisite background. Equations are provided to enable the student to escalate or otherwise adjust historical equipment cost data.

Content

Cost Estimate Types and Accuracy

Regardless of accuracy, capital cost estimates are typically made-up of direct and indirect costs. Indirect costs consist of project services, such as overhead and profit, and engineering and administrative fees. Direct costs are construction items for the project and include property, equipment, and materials. This course deals with the equipment component of direct cost.

Process Equipment Cost Estimating By Ratio And Proportion

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Process Equipment Cost Estimating By Ratio And Proportion:

Managing Cost Estimating & Budgeting - Project Controls Planning Planet, The Managing Cost Estimating and Budgeting Module is to introduce the tools techniques and methodologies associated with cost estimating and budgeting that have been identified as being best tested and proven practices and which have been found to work on most projects most of the time provide a logical or rational sequence showing when those tools or techniques would normally and customarily be used and in selected instances show how to use those tools techniques and or where to find additional information on how to use or apply them

An Economy Based on Carbon Dioxide and Water Michele Aresta, Iftekhar Karimi, Sibudjing Kawi, 2019-07-01 This book is devoted to CO₂ capture and utilization CCU from a green biotechnological and economic perspective and presents the potential of and the bottlenecks and breakthroughs in converting a stable molecule such as CO₂ into specialty chemicals and materials or energy rich compounds The use of renewable energy solar wind geothermal hydro and non fossil hydrogen is a must for converting large volumes of CO₂ into energy products and as such the authors explore and compare the availability of hydrogen from water using these sources with that using oil or methane Divided into 13 chapters the book offers an analysis of the conditions under which CO₂ utilization is possible and discusses CO₂ capture from concentrated sources and the atmosphere It also analyzes the technological non chemical uses of CO₂ carbonation of basic minerals and industrial sludge and the microbial catalytic electrochemical photoelectrochemical plasma conversion of CO₂ into chemicals and energy products Further the book provides examples of advanced bioelectrochemical syntheses and RuBisCO engineering as well as a techno energetic and economic analysis of CCU Written by leading international experts this book offers a unique perspective on the potential of the various technologies discussed and a vision for a sustainable future Intended for graduates with a good understanding of chemistry catalysis biotechnology electrochemistry and photochemistry it particularly appeals to researchers in academia and industry and university teachers

Principles of Sustainable Energy Systems Charles F. Kutscher, Jana B. Milford, Frank Kreith, 2025-08-14 *Principles of Sustainable Energy Systems* provides students with a fundamental and practical understanding of the energy transition It discusses the design production and economics of energy conversion and storage technologies as well as requirements and technologies for the end use sectors of transportation buildings and industry This book begins by introducing students to the important field of sustainability and then presents comprehensive coverage of solar wind hydropower biomass and bio fuels geothermal nuclear and ocean based energy technologies This new edition features recent advances in batteries and other storage technologies electricity transmission electric vehicles and beneficial electrification and demand response in buildings as well as approaches for reducing emissions from shipping and aviation It introduces new material on low carbon building materials heat pumps and the practical design aspects of solar photovoltaic systems This book also covers economics and energy systems analysis methods such as life cycle assessment and greenhouse gas accounting including detailed examples of design and financial

analysis using the System Advisor Model SAM This book is intended for upper level undergraduate and graduate engineering students taking courses in Renewable Energy Energy Systems and Energy Conversion Instructors will have access to a Solutions Manual and Figure Slides for their course

Process Industry Economics David J. Brennan,1998 A primer for engineers giving an overview of key facets of international process economics The text covers market evaluation shows how to estimate capital and operating costs tackles project profitability and how to plan capacity

Microfoundations of Evolutionary Economics Yoshinori Shiozawa,Masashi Morioka,Kazuhisa Taniguchi,2019-06-27 This book provides for the first time the microfoundations of evolutionary economics enabling the reader to grasp a new framework for economic analysis that is compatible with evolutionary processes Any independent approach to economics must include a value theory or price theory and price and quantity adjustment processes Evolutionary economics has rightly and successfully concentrated its efforts on explaining evolutionary processes in technology and institutions However it does not have its own value theory and is not capable of explaining the workings of everyday economics processes in which any evolutionary process would take place Our point of departure is the addition of myopic agents with severely limited rational and forecasting capacities in stark contrast to mainstream economics We show how myopic agents in a complex world can produce a stable price system and demonstrate how they can adjust their production to changing demand flows Agents behave without any knowledge of the overall process and they generate a stable economy as large as the global network of exchanges This is the true miracle of the market mechanism In contrast to mainstream general equilibrium theory this miracle can be explained without the need for an auctioneer or infinitely rational agents Thanks to this book evolutionary economics can now claim to be an independent approach to economics that can completely replace mainstream neoclassical economics

Equipment Selection: Heat Exchangers, Pumps, Distillation Equipment ,1960 Petroleum Refiner ,1958

Data & Methods for Cost Estimation ,1952 Cost Engineering in the Process Industries Cecil Hamilton Chilton,1960 **CEER, Chemical Economy & Engineering Review** ,1985 **Electrochemical and Metallurgical Industry** Eugene Franz Roeber,Howard Coon Parmelee,1923 **Handbook of Industrial Engineering** Gavriel Salvendy,2001-05-25 Unrivaled coverage of a broad spectrum of industrial engineering concepts and applications The Handbook of Industrial Engineering Third Edition contains a vast array of timely and useful methodologies for achieving increased productivity quality and competitiveness and improving the quality of working life in manufacturing and service industries This astoundingly comprehensive resource also provides a cohesive structure to the discipline of industrial engineering with four major classifications technology performance improvement management management planning and design control and decision making methods Completely updated and expanded to reflect nearly a decade of important developments in the field this Third Edition features a wealth of new information on project management supply chain management and logistics and systems related to service industries Other important features of this essential reference

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