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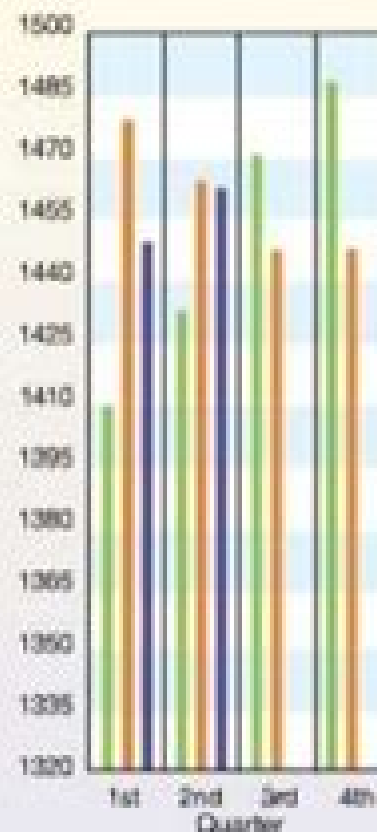
MARSHALL & SWIFT EQUIPMENT COST INDEX

(1926 = 100)

	2nd Q 2010	1st Q 2010	4th Q 2009	3rd Q 2009	2nd Q 2009
M & S INDEX	1,461.3	1,448.3	1,446.5	1,446.4	1,462.9
Process industries, average	1,502.1	1,510.3	1,511.9	1,515.1	1,534.2
Cement	1,519.2	1,508.1	1,508.2	1,509.7	1,532.5
Chemicals	1,493.5	1,481.8	1,483.1	1,485.8	1,504.8
Clay products	1,505.6	1,496.0	1,494.3	1,495.8	1,512.9
Glass	1,416.4	1,403.0	1,400.1	1,400.4	1,420.1
Paint	1,527.6	1,515.1	1,514.1	1,515.1	1,535.9
Paper	1,430.1	1,416.4	1,415.8	1,416.3	1,435.6
Petroleum products	1,625.9	1,615.6	1,617.6	1,625.2	1,643.5
Rubber	1,564.2	1,551.0	1,560.5	1,560.7	1,581.1
Related industries					
Electrical power	1,414.0	1,389.6	1,377.3	1,370.8	1,394.7
Mining, milling	1,569.1	1,552.1	1,548.1	1,547.6	1,562.9
Refrigeration	1,786.9	1,772.2	1,769.5	1,767.3	1,789.0
Steam power	1,488.0	1,475.0	1,470.8	1,471.4	1,490.8

Annual Index:

2002 = 1,104.2	2004 = 1,178.5	2006 = 1,302.3	2008 = 1,448.3
2003 = 1,123.6	2005 = 1,244.5	2007 = 1,373.3	2009 = 1,468.6



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Marshall And Swift Chemical Engineering Cost Indices

A. Kayode Coker



Marshall And Swift Chemical Engineering Cost Indices:

Preliminary Chemical Engineering Plant Design W.D. Baasal, 1989-11-30 This reference covers both conventional and advanced methods for automatically controlling dynamic industrial processes **Project and Cost Engineers' Handbook, Third Edition**, Kenneth King Humphreys, Lloyd M. English, 1992-11-19 Designed as a day to day resource for practitioners and a self study guide for the AACE International Cost Engineers certification examination This third edition has been revised and expanded and topics covered include project evaluation project management and planning and scheduling

Estimating Costs of Air Pollution Control William M. Vataavuk, 2023-07-28 In these pages is all the information that you manager engineer or other technical professional would need to select size and estimate budget study level capital and annual costs for a variety of air pollution control equipment This equipment includes wet scrubbers carbon adsorbers and other add on devices This book also deals with such nonstack controls as wet dust suppression systems and flue gas desulfurization systems The costs are current 1988 or 1989 dollars and are mainly presented in equational form for ease of computerization and updating Clear comprehensive equipment sizing procedures are also detailed Finally several detailed example problems are included to illustrate the sizing and costing procedures This book is not just for technical personnel however The material is easy to grasp and use Anyone with an air pollution control background can follow and apply the procedures and data herein Using this book air pollution control professionals can now develop sound defensible within 30% cost estimates with a minimum of time and effort *Process Engineering Economics* James Riley Couper, 2003-08-26 This reference outlines the fundamental concepts and strategies for economic assessments for informed management decisions in industry The book illustrates how to prepare capital cost and operating expense estimates profitability analyses and feasibility studies and how to execute sensitivity and uncertainty assessments From financial reports to opportunity costs and engineering trade offs *Process Engineering Economics* considers a wide range of alternatives for profitable investing and for projecting outcomes in various chemical and engineering fields It also explains how to monitor costs finances and economic limitations at every stage of chemical project design preparation and evaluation *Life Cycle Costing* Balbir S. Dhillon, 1989 Evaluating the cost of acquiring major pieces of equipment also necessitates costing their life maintenance Providing coverage of recent advances in this field this book covers such topics as reliability improvement warranty computer hardware software costing and reliability engineering *The Engineer's Cost Handbook* Richard E. Westney, 1997-02-26 Offers coverage of each important step in engineering cost control process from project justification to life cycle costs The book describes cost control systems and shows how to apply the principles of value engineering It explains estimating methodology and the estimation of engineering equipment and construction and labour costs delineates productivity and cash flow analysis and more **Ludwig's Applied Process Design for Chemical and Petrochemical Plants** A. Kayode Coker, 2011-08-30 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. Also included within are improved techniques and fundamental methodologies to guide the engineer in designing process equipment and applying chemical processes to properly detailed equipment. All three volumes of *Applied Process Design for Chemical and Petrochemical Plants* serve the practicing engineer by providing organized design procedures, details on the equipment suitable for application selection, and charts in readily usable form. Process engineers, designers, and operators will find more chemical/petrochemical plant design data in Volume 2, Third Edition, which covers distillation and packed towers, as well as material on azeotropes and ideal/non-ideal systems. Volume 3, Third Edition, which covers heat transfer, refrigeration systems, compression, surge drums, and mechanical drivers. A Kayode Coker is Chairman of Chemical Process Engineering Technology department at Jubail Industrial College in Saudi Arabia. He is both a chartered scientist and a chartered chemical engineer for more than 15 years and an author of *Fortran Programs for Chemical Process Design Analysis and Simulation* (Gulf Publishing Co) and *Modeling of Chemical Kinetics and Reactor Design* (Butterworth-Heinemann). Provides improved design manuals for methods and proven fundamentals of process design with related data and charts. Covers a complete range of basic day-to-day petrochemical operation topics with new material on significant industry changes since 1995.

Economic Evaluations in Exploration Friedrich-Wilhelm Wellmer, Manfred Dalheimer, Markus Wagner, 2007-10-26. This fully updated textbook is intended for the economic geologist who deals with the evaluation of deposits at an early stage of development. It offers rules for quick and easy calculations based on the application of approximate data. It provides both the student and the geologist in the field with a complete set of rules and methods enabling them to perform a quick initial evaluation of the deposit without the support of specialists or computers, even if he is left to his own resources. All rules for calculations are illustrated with examples and mistakes and pitfalls the authors encountered during their careers are pointed out.

Encyclopedia of Chemical Processing and Design John J. McKetta Jr., 1991-03-21. Written by engineers for engineers with over 150 International Editorial Advisory Board members, this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical and related industries.

Food Plant Economics Zacharias B. Maroulis, George D. Saravacos, 2007-08-02. Applying the proven success of modern process engineering economics to the food industry, *Food Plant Economics* considers the design and economic analysis of food preservation, food manufacturing, and food ingredients plants with regard to a number of representative food processes. Economic analysis of food plants requires the evaluation of quantitative data from the design and operation of food processes and processing plants. Accompanying downloadable resources include prepared Excel spreadsheets for calculating various food plants scenarios by applying appropriate data regarding the cost of equipment and equipment sizing, material and energy balances, and plant operating costs. Beginning with a thorough

background in the economics of a food plant the first three chapters summarize recent advances in food process and research technology the structure of the food system in the US and EU and the principles of modern design in food processes processing equipment and processing plants The second three chapters discuss process economics in relation to the food industry by applying the concepts of capital cost operating cost and cash flow to estimations of plant profitability Detailed chapters cover estimations of capital investment and operating costs including statistical data empirical models and useful rules of thumb The remaining three chapters apply the techniques of the previous discussions to food preservation plants such as concentration canning and dehydration manufacturing plants including wine bread and yogurt as well as ingredients plants that produce sugars and oils A useful appendix contains a glossary tables conversions nomenclature food properties and heat transfer coefficients A practical and comprehensive treatment of process economics Food Plant Economics provides a complete introduction to the application of this efficient technique to the food industry

Fundamentals of Hazardous Waste Site Remediation Kathleen Sellers, 2018-10-03 Every practicing environmental engineer should already have a firm grasp on the basics of hazardous waste site remediation the key to confronting a site problem and devising an effective solution Since their original introduction to remediation technology has kept moving ahead with new ideas and procedures Fundamentals of Hazardous Waste Site Remediation gives environmental professionals immediate access to the basics of the trade along with information about recent advancements This comprehensive overview examines the basics of such areas as hazardous materials chemistry hydrogeology reaction engineering and clean up level development A chapter on Cost Estimating will be of particular interest to specialists in light of recent concerns about the increased costs of remediation After reading each chapter test your new knowledge with the review problems As a refresher guide for career environmental engineers or a helpful tool to newcomers in the field Fundamentals of Hazardous Waste Site Remediation is a valuable resource for longtime professionals and newcomers alike

Scale-Up Processes Jamal Chaouki, Rahmat Sotudeh-Gharebagh, 2021-09-20 Common scale up methods are conventional where the blind piloting is essential This imposes huge investment and leads to failures mostly in solid processing However the limitations of resources current shortcomings short time to market demand are forced companies to minimize piloting With these situations in mind current digitalization outlook and computational facilities we proposed and developed a novel iterative scale up method with case studies which highly expedites the process innovation through the following key sequences

Thermodynamics for the Practicing Engineer Louis Theodore, Francesco Ricci, Timothy Vanvliet, 2011-11-30 Enables you to easily advance from thermodynamics principles to applications Thermodynamics for the Practicing Engineer as the title suggests is written for all practicing engineers and anyone studying to become one Its focus therefore is on applications of thermodynamics addressing both technical and pragmatic problems in the field Readers are provided a solid base in thermodynamics theory however the text is mostly dedicated to demonstrating how theory is applied to solve real world problems This text s four parts enable

readers to easily gain a foundation in basic principles and then learn how to apply them in practice Part One Introduction Sets forth the basic principles of thermodynamics reviewing such topics as units and dimensions conservation laws gas laws and the second law of thermodynamics Part Two Enthalpy Effects Examines sensible latent chemical reaction and mixing enthalpy effects Part Three Equilibrium Thermodynamics Addresses both principles and calculations for phase vapor liquid and chemical reaction equilibrium Part Four Other Topics Reviews such important issues as economics numerical methods open ended problems environmental concerns health and safety management ethics and exergy Throughout the text detailed illustrative examples demonstrate how all the principles procedures and equations are put into practice Additional practice problems enable readers to solve real world problems similar to the ones that they will encounter on the job Readers will gain a solid working knowledge of thermodynamics principles and applications upon successful completion of this text Moreover they will be better prepared when approaching addressing advanced material and more complex problems

Petroleum Refining Design and Applications Handbook, Volume 5 A. Kayode Coker, 2023-07-13 PETROLEUM REFINING With no new refineries having been built in decades companies continue to build onto or reverse engineer and re tool existing refineries With so many changes in the last few years alone books like this are very much in need There is truly a renaissance for chemical and process engineering going on right now across multiple industries This fifth and final volume in the Petroleum Refining Design and Applications Handbook set this book continues the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Besides the list below this groundbreaking new volume describes blending of products from the refinery applying the ternary diagrams and classifications of crude oils flash point blending pour point blending aniline point blending smoke point and viscosity blending cetane and diesel indices The volume further reviews refinery operational cost cost allocation of actual usage project and economic evaluation involving cost estimation cash flow involving return on investment net present values discounted cash flow rate of return net present values payback period inflation and sensitivity analysis and so on It reviews global effects on the refining economy carbon tax carbon foot print global warming potential carbon dioxide equivalent carbon credit carbon offset carbon price and so on It reviews sustainability in petroleum refining and alternative fuels biofuels and so on impact of the overall greenhouse effects carbon capture and storage in refineries process intensification in biodiesel biofuel from green diesel acid gas removal and emerging technologies carbon capture and storage gas heated reformer unit pressure swing adsorption process steam methane reforming for fuel cells grey blue and green hydrogen production new technologies for carbon capture and storage carbon clean process design refinery of the future refining and petrochemical industry characteristics The text is packed with Excel spreadsheet calculations and Honeywell UniSim Design software in some examples and it includes an invaluable glossary of petroleum and petrochemical technical terminologies Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no

chemical or process engineering library should be without Written by one of the world s foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance It is truly a must have for any practicing engineer or student in this area

Estimating and Costing for the Metal Manufacturing Industries Robert Creese,M. Adithan,1992-08-25 This practical reference text provides a thorough overview of cost estimating as applied to various manufacturing industries with special emphasis on metal manufacturing concerns It presents examples and study problems illustrating potential applications and the techniques involved in estimating costs Containing both US and metric units for easy conversion of world wide manufacturing data Estimating and Costing for the Metal Manufacturing Industries outlines professional societies and publications dealing with cost estimating and cost analysis details the four basic metalworking processes machining casting forming and joining reveals five techniques for capital cost estimating including the new AACE International s Recommended Practice 16R 90 and the new knowledge and experience method discusses the effect of scrap rates and operation costs upon unit costs offers four formula methods for conceptual cost estimating and examines material design cost relationships describes cost indexes cost capacity factors multiple improvement curves and facility cost estimation techniques offers a generalized metal cutting economics model for comparison with traditional economic models and more Estimating and Costing for the Metal Manufacturing Industries serves as an on the job single source reference for cost manufacturing and industrial engineers and as a text for upper level undergraduate graduate and postgraduate students in cost estimating engineering economics and production operations courses A Solutions manual to the end of chapter problems is available free of charge to instructors only Requests for the manual must be made on official school stationery

Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents A. Kayode Coker,2024-06-08 Ludwig s Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents Fifth Edition Volume One is ever evolving and provides improved techniques and fundamental design methodologies to guide the practicing engineer in designing process equipment and applying chemical processes to properly detailed hardware Like its predecessor this new edition continues to present updated information for achieving optimum operational and process conditions and avoiding problems caused by inadequate sizing and lack of internally detailed hardware The volume provides both fundamental theories where applicable and direct application of these theories to applied equations essential in the design effort This approach in presenting design information is essential for troubleshooting process equipment and in executing system performance analysis Volume 1 covers process planning flow sheeting scheduling cost estimation economic factors physical properties of liquids and gases fluid flow mixing of liquids mechanical separations process safety pressure relieving devices metallurgy and corrosion and process optimization The book builds upon 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 new content on three phase separation

ejectors and mechanical vacuum systems process safety management HAZOP and hazard analyses and optimization of chemical process blending Provides improved design manual for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petrochemical operation topics Extensively revised with new materials on Non Newtonian fluids homogeneous and heterogeneous flow and pressure drop ejectors phase separation metallurgy and corrosion and optimization of chemical process blending Presents many examples using Honeywell UniSim Design software developed and executable computer programs and Excel spreadsheet programs Includes case studies of process safety incidents guidance for troubleshooting and checklists Includes Software of Conversion Table and 40 process data sheets in excel format Kern's Process Heat Transfer Ann Marie Flynn,Toshihiro Akashige,Louis

Theodore,2019-05-16 This edition ensures the legacy of the original 1950 classic Process Heat Transfer by Donald Q Kern that by many is held to be the gold standard This second edition book is divided into three parts Fundamental Principles Heat Exchangers and Other Heat Transfer Equipment Considerations Part I provides a series of chapters concerned with introductory topics that are required when solving heat transfer problems This part of the book deals with topics such as steady state heat conduction unsteady state conduction forced convection free convection and radiation Part II is considered by the authors to be the meat of the book and the primary reason for undertaking this project Other than minor updates Part II remains relatively unchanged from the first edition Notably it includes Kern s original design methodology for double pipe shell and tube and extended surface heat exchangers Part II also includes boiling and condensation boilers cooling towers and quenchers as well as newly designed open ended problems Part III of the book examines other related topics of interest including refrigeration and cryogenics batch and unsteady state processes health safety and the accompanying topic of risk In addition this part also examines the impact of entropy calculations on exchanger design A 36 page Appendix includes 12 tables of properties layouts and design factors WHAT IS NEW IN THE 2ND EDITION Changes that are addressed in the 2nd edition so that Kern s original work continues to remain relevant in 21st century process engineering include Updated Heat Exchanger Design Increased Number of Illustrative Examples Energy Conservation Entropy Considerations Environmental Considerations Health Safety Risk Assessment Refrigeration and Cryogenics **Lignocellulosic Biorefining**

Technologies Avinash P. Ingle,Anuj Kumar Chandel,Silvio Silverio da Silva,2020-01-08 A text to the advances and development of novel technologies in the production of high value products from economically viable raw materials Lignocellulosic Biorefining Technologies is an essential guide to the most recent advances and developments of novel technologies in the production of various high value products from economically viable raw materials Written by a team of experts on the topic the book covers important topics specifically on production of economical and sustainable products such as various biofuels organic acids enzymes biopigments biosurfactants etc The book highlights the important aspects of lignocellulosic biorefining including structure function and chemical composition of the plant cell wall and reviews the details

about the various components present in the lignocellulosic biomass and their characterizations The authors explore the various approaches available for processing lignocellulosic biomass into second generation sugars and focus on the possibilities of utilization of lignocellulosic feedstocks for the production of biofuels and biochemicals Each chapter includes a range of clear informative tables and figures and contains relevant references of published articles This important text Provides cutting edge information on the recent developments in lignocellulose biorefinery Reviews production of various economically important and sustainable products such as biofuels organic acids biopigments and biosurfactants Highlights several broad ranging areas of recent advances in the utilization of a variety of lignocellulosic feedstocks Provides a valuable authoritative reference for anyone interested in the topic Written for post graduate students and researchers in disciplines such as biotechnology bioengineering forestry agriculture and chemical industry *Lignocellulosic Biorefining Technologies* is an authoritative and updated guide to the knowledge about various biorefining technologies

Computer Aided Process and Product Engineering (CAPE) Luis Puigjaner, Georges Heyen, 2007-01-02 Computer aided process engineering CAPE tools have been very successfully used in process design and product engineering for a long time In particular simulation and modelling tools have enabled engineers to analyse and understand the behaviour of selected processes prior to building actual plants The aim of design or retrofit of chemical processes is to produce profitably products that satisfy the societal needs ensuring safe and reliable operation of each process as well as minimising any effects on the environment This involves the conceptual design or retrofit of plants and processes novel manufacturing approaches process control system design interactions and operability manufacturability environmental and safety issues Backed by current studies this 2 volume set gives a comprehensive survey of the various approaches and latest developments on the use of CAPE in the process industry An invaluable reference to the scientific and industrial community in the field of computer aided process and product engineering

Piping Design Handbook John J. McKetta Jr, 1992-01-29 This encyclopedic volume covers almost every phase of piping design presenting procedures in a straightforward way Written by 82 world experts in the field the Piping Design Handbook details the basic principles of piping design explores pipeline shortcut methods in an in depth manner and presents expanded rules of thumb for the piping design engineer Generously illustrated with over 1575 figures display equations and tables the Piping Design Handbook is for chemical mechanical process and equipment design engineers

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