

COST ESTIMATE CLASSIFICATION MATRIX FOR THE PROCESS INDUSTRIES

ESTIMATE CLASS	Primary Characteristic	Secondary Characteristic		
	MATURITY LEVEL OF PROJECT DEFINITION DELIVERABLES Expressed as % of complete definition	END USAGE Typical purpose of estimate	METHODOLOGY Typical estimating method	EXPECTED ACCURACY RANGE Typical variation in low and high ranges ^{2c}
Class 5	0% to 2%	Concept screening	Capacity factored, parametric models, judgment, or analogy	L: -20% to -50% H: +30% to +100%
Class 4	1% to 15%	Study or feasibility	Equipment factored or parametric models	L: -15% to -30% H: +20% to +50%
Class 3	10% to 40%	Budget authorization or control	Semi-detailed unit costs with assembly level line items	L: -10% to -20% H: +10% to +30%
Class 2	30% to 75%	Control or bid/tender	Detailed unit cost with forced detailed take-off	L: -5% to -15% H: +5% to +20%
Class 1	65% to 100%	Check estimate or bid/tender	Detailed unit cost with detailed take-off	L: -3% to -10% H: +3% to +15%

Notes: [a] The state of process technology, availability of applicable reference cost data, and many other risks affect the range markedly. The +/- value represents typical percentage variation of actual costs from the cost estimate after application of contingency (typically at a 50% level of confidence) for given scope.

Table 1 – Cost Estimate Classification Matrix for Process Industries

18r 97 Cost Estimate Classification System As Applied

Glenn Ballard, Peter Morris



18r 97 Cost Estimate Classification System As Applied:

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. **An Applied Guide to Process and Plant Design** Sean Moran, 2019-06-12 An Applied Guide to Process and Plant Design 2nd edition is a guide to process plant design for both students and professional engineers. The book covers plant layout and the use of spreadsheet programs and key drawings produced by professional engineers as aids to design subjects that are usually learned on the job rather than in education. You will learn how to produce smarter plant design through the use of computer tools including Excel and AutoCAD. What-If Analysis, statistical tools and Visual Basic for more complex problems. The book also includes a wealth of selection tables covering the key aspects of professional plant design which engineering students and early career engineers tend to find most challenging. Professor Moran draws on over 20 years experience in process design to create an essential foundational book ideal for those who are new to process design, compliant with both professional practice and the IChemE degree accreditation guidelines. Includes new and expanded content including illustrative case studies and practical examples. Explains how to deliver a process design that meets both business and safety criteria. Covers plant layout and the use of spreadsheet programs and key drawings as aids to design. Includes a comprehensive set of selection tables covering aspects of professional plant design which early career designers find most challenging. **Gas Turbine Combined Cycle Power Plants** S. Can Gülen, 2019-12-06 This book covers the design, analysis and optimization of the cleanest, most efficient

fossil fuel fired electric power generation technology at present and in the foreseeable future The book contains a wealth of first principles based calculation methods comprising key formulae charts rules of thumb and other tools developed by the author over the course of 25 years spent in the power generation industry It is focused exclusively on actual power plant systems and actual field and or rating data providing a comprehensive picture of the gas turbine combined cycle technology from performance and cost perspectives Material presented in this book is applicable for research and development studies in academia and government industry laboratories as well as practical day to day problems encountered in the industry including OEMs consulting engineers and plant operators

A Practical Guide to Cost Engineering Helber

Macedo,2023-12-01 A Practical Guide to Cost Engineering aims to show you how to work as a cost engineer out in the real world Written by an experienced cost engineer and training program developer this book introduces the practical side of cost management cost estimation cost reduction and cost control through real cases and realistic examples from a diverse range of engineering based projects With examples from nuclear oil and gas and renewable energy sectors the book introduces and demonstrates the activities of the cost engineer throughout a project life cycle The content is divided into logical sections covering basic concepts cost estimation cost control economic feasibility sustainability and more and the chapters are packed full of features such as definitions formulas exercises and examples The focus is on providing a practical approach where the reader can first understand a concept and then apply it using an Excel tool developed by the author which allows the reader to simulate different scenarios and results The simple approach focusing on essential information backed up by practical scenarios presented in this book allows cost engineers and related professionals to execute and understand their activities develop their professional skills and even develop in house training programs A Practical Guide to Cost Engineering is accompanied by online resources accessible via the Routledge Resource Centre website

How to Estimate with RSMeans Data Saleh A. Mubarak,RSMeans,2012-04-04 Using North America s most recognized construction cost data from RSMeans this step by step guide develops problem solving skills through over 300 sample problems and exercises All of the major construction items including site work concrete and masonry wood and metal framing doors and windows and more are covered Access to a password protected web site is included which contains the instruction version of RSMeans Cos Works the electronic version of RS Means Building Construction Cost Data and sample building plans and spreadsheets enabling you to practice creating a complete construction estimate

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 *Project and Cost Engineers' Handbook* Kenneth K.

Humphreys, 2004-11-30 Making the specifics of a complex concern accessible and its handling quite manageable this fourth edition of the Project and Cost Engineers Handbook examines the variables associated with international projects and project risk analysis It provides instruction on contingency planning delves into ethical considerations considers the imp

Handbook of Construction Management for Instrumentation and Controls K. Srinivasan, T. V. Vasudevan, S. Kannan, D. Ramesh Kumar, 2023-12-18 HANDBOOK OF CONSTRUCTION MANAGEMENT FOR INSTRUMENTATION AND CONTROLS Learn to effectively install and commission complex high performance instrumentation and controls in modern process plants In Handbook of Construction Management for Instrumentation and Controls a team of experienced engineers delivers an expert discussion of what is required to install and commission complex high performance instrumentation and controls The authors explain why despite the ubiquitous availability of diverse international standards and instrument manufacturer data the effective delivery of such projects involves significantly more than simply fitting instruments on panels The book covers material including site management administration operations site safety material management workforce planning instrument installation and cabling instrument calibration loop check and controller tuning results recording and participation in plant commissioning exercises It also provides an extensive compendium of forms and checklists that can be used by professionals on a wide variety of installation and commissioning projects Handbook of Construction Management for Instrumentation and Controls also offers A thorough introduction to site operations including the principles of equipment

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Principles, Process and Practice of Professional Number Juggling
 Alan Jones, 2018-09-13 Principles Process and Practice of Professional Number Juggling Volume 1 of the Working Guides to Estimating Forecasting series sets the scene of TRACEability and good estimate practice that is followed in the other volumes in this series of five working guides It clarifies the difference between an Estimating Process Procedure Approach Method and Technique It expands on these definitions of Approach Top down Bottom up and Ethereal and Method Analogy Parametric and Trusted Source and discusses how these form the basis of all other means of establishing an estimate This volume also underlines the importance of data normalisation in any estimating procedure and demonstrates that the Estimating by Analogy Method in essence is a simple extension of Data Normalisation The author looks at simple measures of assessing the maturity or health of an estimate and offers a means of assessing a spreadsheet for any inherent risks or errors that may be introduced by failing to follow good practice in spreadsheet design and build This book provides a taster of the more numerical techniques covered in the remainder of the series by considering how an estimator can potentially exploit Benford's Law traditionally used in Fraud Detection to identify systematic bias from third party contributors It will be a valuable resource for estimators engineers accountants project risk specialists as well as students of cost engineering

How to Estimate with RSMeans Data RSMeans, Saleh A. Mubarak, 2020-03-31 A practical hands on guide to real world construction estimating How to Estimate with RSMeans Data is the only instructional book on construction cost estimating that uses the most popular source of construction cost data RS Means This updated fifth edition includes new coverage on the role of Building Information Modeling BIM in the estimating process and over 300 sample problems and exercises that show you how to apply cost data to your building project based on the RS Means 2015 Building Construction Cost Data The companion website provides access to RS Means CostWorks data allowing you to use real world numbers in your practice estimates and the included Instructor's Manual provides step by step solutions to problems in the book Focused on the practical aspects of estimating this book emphasizes the application of estimating techniques which are transferable to any estimating software through problem solving and the ground up creation of complete construction project estimates Estimating skills are fundamental to the construction industry and are applied by all parties at all levels throughout the industry This book is a hands on guide to the techniques and tools used to create a thorough estimate with plenty of

opportunities for practice Apply cost data to all aspects of the building project Practice your skills on over 300 sample problems Construct a complete estimate using RSMeans Besides being an essential construction skill learning estimating helps you become familiar with reading and understanding construction blueprints and how construction assemblies are built Mastery of these vital skills is important to your future career and How to Estimate with RSMeans Data is your ideal guide to a solid foundation

Cost Engineering for Pollution Prevention and Control Paul Mac Berthouex, Linfield C.

Brown, 2021-05-13 Environmental engineers work to increase the level of health and happiness in the world by designing building and operating processes and systems for water treatment water pollution control air pollution control and solid waste management These projects compete for resources with projects in medicine transportation education and other fields that have a similar objective The challenge is to make the investments efficient to get the best project outputs with a minimum of inputs Cost Engineering for Pollution Prevention and Control examines how to identify the best solution by judging alternatives with respect to some measure of system performance such as total capital cost annual cost annual net profit return on investment cost benefit ratio net present worth minimum production time maximum production rate minimum energy utilization and so on Key Features Explains how to estimate preliminary costs how to compare the life cycle costs of alternative projects how to find the optimal balance between capital costs and operating costs Emphasis is placed on formulating the problem rather than on the mathematical details of how the calculations are done Provides numerous practical examples and case studies Includes end of chapter exercises dealing with water wastewater air pollution solid wastes and remediation projects The important concepts presented in this book can be understood by those students who have taken an introductory course in environmental engineering Advanced knowledge of process design is not required The material can also be utilized by engineers managers and others who would benefit from a better understanding of how engineers look at problems

Tailings Management Handbook Kimberly Finke Morrison, 2022-02-01

As long as we have mining and mineral processing tailings and the responsible management thereof will remain at the forefront with a company's environmental social and governance ESG performance in part a reflection of how well tailings risks are being managed The Global Industry Standard on Tailings Management GISTM was published in August 2020 aiming to prevent catastrophic failure of tailings facilities by providing operators with specified measures and approaches throughout the mine life cycle taking into account multiple stakeholder perspectives In 2021 the International Council on Mining Metals ICMM published the Tailings Management Good Practice Guide intended to support safe responsible management of tailings across the global mining industry providing guidance on good governance and engineering practices to support continual improvement in tailings storage facility TSF management and help foster and strengthen the safety culture of mining companies The Tailings Management Handbook is important and timely because there is no other comprehensive resource rooted in these new fundamentals and global principles for tailings management Tailings management requires interdisciplinary and cross

functional understanding and support which is apparent throughout this handbook Dive into the wealth of information contributed by more than 100 world renowned experts beautifully crafted into a full color handbook that focuses on the basics life cycle planning site and tailings characterization TSF design and construction as well as systems and operations of TSFs The inclusion of 42 case studies is an added plus with real world successes and lessons learned Management of Nuclear Power Plant Projects IAEA,2020-11-25 Member States intending to introduce a nuclear power programme will need to pass through several phases during the implementation Experience shows that careful planning of the objectives roles responsibilities interfaces and tasks to be carried out in different phases of a nuclear project is important for success This publication presents a harmonized approach that may be used to structure the owner operator management system and establish and manage nuclear projects and their development activities irrespective of the adopted approach It has been developed from shared management practices and consolidated experiences provided by nuclear project management specialists through a series of workshops and working groups organized by the IAEA The resultant publication presents a useful framework for the management of nuclear projects from initiation to closeout and captures international best practices

Process Design, Economics, and Project Engineering Wayne Seames,2025-11-20 The principal goal of this textbook is to prepare process and chemical engineers for careers in a wide variety of process related jobs This book will also serve as a reference resource for engineers working in the process and process design industries It assumes prerequisite knowledge of material and energy balances heat transfer fluid flow and mass transfer but does not require any prerequisite knowledge of economics process control process safety or material selection Its structure is uniquely organized to follow the project life cycle that is most commonly used by engineering contractors and the operating companies they serve in the process industries

KEY FEATURES Covers both retrofit and new process projects Includes a set of easy to use step by step preliminary equipment sizing methods Offers realistic rules of thumb for equipment sizing and pressure profiles Discusses professional development topics such as time management planning and scheduling teamwork leadership conflict resolution technical writing effective meetings and oral communication Addresses safety and sustainability considerations in process design Includes a unified suite of cost estimating methods for simple retrofits major retrofits and grassroots projects Covers process project economics and how to evaluate process opportunities including a method to estimate economic benefits for difficult to quantify opportunities Includes information on plant layout auxiliary systems and process automation Features homework problems and examples case study example reports Visio drawing templates and Excel workbooks with example calculations for economic analysis This textbook is aimed at advanced undergraduate students in chemical engineering studying process plant design and economics and serves as a handbook for practicing process and process project engineers A solutions manual and lecture slides are available to qualifying adopting instructors

Petroleum Refining Design and Applications Handbook, Volume 5 A. Kayode Coker,2023-06-22 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

Program Management Ginger Levin, 2016-04-19 Program management is a rapidly emerging offshoot of project management So much so that AT T IBM and other organizations both large and small in all sectors have initiated a push to certify program managers And although universities offer courses in program management there are few books available to guide program managers through this

Waste Heat Recovery: Principles And Industrial Applications Chirla Chandra Sekhara Reddy, Gade Pandu Rangaiah, 2022-04-22 This book presents a comprehensive coverage of fundamentals latest technologies and industrial applications of Waste Heat Recovery WHR in process industries Simple and effective WHR techniques are illustrated with industrial examples to help readers to identify calculate and develop heat recovery potential in their processes Key benefits of WHR projects which are useful for developing successful WHR business cases are demonstrated Special emphasis is given towards major technical risks and mitigation plans for

implementing sound WHR projects Techniques for reaping benefits of WHR projects for longer periods are also outlined Applying these techniques with an understanding of the principles explained in this book and taking cues from the examples and suggestions the reader will be able to realise sustained benefits in their process Solution manual is provided for free to instructors who adopt this textbook Please send your request to sales wpsc com

Project Life Cycle Economics Mr Massimo Pica, 2015-04-28 The financing of modern construction projects reflects the need to address the costs and benefits of the whole life of the project This means that end of life economics can now have a far greater impact on the planning and feasibility phases During the project itself decisions on construction materials and processes all influence the schedule as well as both immediate and down the line costs Massimo Pica and his co authors explain in detail the fundamentals of project life cycle economics and how they apply in the context of complex modern construction This is an essential guide for those involved in construction project design tendering and contracting to help ensure the sustainability of the project or their contribution to it from the start It is also important for those involved in the delivery of the project to help them make the choices to keep the project on a financial even keel Government corporations and other organizations are looking for new models of collaborative working to fund their large construction and infrastructure projects in the face of changing attitudes to risk a better educated and more demanding base of end user clients and the increasing requirements for projects that are environmentally responsible and sustainable Project Life Cycle Economics is a fundamental primer for those commissioning and those delivering construction

Computational Science and Its Applications - ICCSA 2017 Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Giuseppe Borruso, Carmelo M. Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, Elena Stankova, Alfredo Cuzzocrea, 2017-07-13 The six volume set LNCS 10404 10409 constitutes the refereed proceedings of the 17th International Conference on Computational Science and Its Applications ICCSA 2017 held in Trieste Italy in July 2017 The 313 full papers and 12 short papers included in the 6 volume proceedings set were carefully reviewed and selected from 1052 submissions Apart from the general tracks ICCSA 2017 included 43 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality Furthermore this year ICCSA 2017 hosted the XIV International Workshop On Quantum Reactive Scattering The program also featured 3 keynote speeches and 4 tutorials

Target Value Delivery in Building Projects Glenn Ballard, Peter Morris, 2025-04-25 This book presents the findings from recent research into practices and applications of Target Value Delivery that is setting budgets based on a building's functional requirements and steering the budgets through the design and construction process It demonstrates that budget setting can precede design solutions and provide tools to the design team to deliver the project vision with the available funds The authors lay out the processes involved in Target Value Delivery explore the history and present how different teams apply the principles in practice The book is intended as a practical guide for practitioners building owners designers contractors project managers and

estimators and to provoke further study and development of the topic within the construction profession

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web listed below are the essential components of a daily sales plan make sure to incorporate all of them so that you can maximize the earning potential of your sales activities 1 sales targets defining your sales targets will be the basis of your sales plan the sales targets are basically your goals or the things you want to achieve in your

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