

# Basic cost engineering 3rd edition Copy

Basic Cost Engineering, Third Edition Cost Engineering: Preprints of 3rd Symp. Held London, Oc 6-9, 1974 Cost Engineering: Preprints of 3rd Symp. Held London, Oc 6-9, 1974 Cost Engineering: Preprints of 3rd Symp. Held London, Oc 6-9, 1974 Applied Cost Engineering, Third Edition Construction Cost Engineering Handbook Guide to Capital Cost Estimating Skills and Knowledge of Cost Engineering 6th Edition Project and Cost Engineers' Handbook Realistic Cost Estimating for Manufacturing, 3rd Edition International Cost Engineering Congress // International Cost Engineering Congress ; 3 Cost Engineering Management Techniques Project and Cost Engineers' Handbook, Third Edition, Cost Engineering Chemical Engineering Design Cost Engineering and Pricing in Autonomous Manufacturing Systems Jelen's Cost and Optimization Engineering Applied Cost Engineering Transactions of the 7th International Cost Engineering Congress Engineering Economic and Cost Analysis The Engineer's Cost Handbook Chemical Engineering Design Cost Engineering Estimating Costs of Air Pollution Control Strategic Cost Fundamentals Advances in Concurrent Engineering Chemical Engineering Economics Decision Making in Engineering Design Advances in Concurrent Engineering Using the Engineering Literature Cost Estimator's Reference Manual Additive Manufacturing - Developments in Training and Education Effective Project Management Through Applied Cost and Schedule Control Systems Cost Engineering Management for Engineers, Technologists and Scientists A Textbook of Estimating , Costing & Accounts ( Civil) Pollution Prevention Software System Handbook Construction Cost Management: Cost Engineering, Cost Controls & Controlled Bidding Engineering Economics of Life Cycle Cost Analysis Process Industry Economics

## ***Basic Cost Engineering, Third Edition***

1995-09-05

this work focuses on the application of fundamental cost engineering principles to the capital and operating costs estimation of major projects it provides detailed coverage of profitability risk and sensitivity analysis this third edition discusses novel strategies for calculating preliminary estimates using masterformat presents new information on estimating the retrofitting and extension of existing plants contains current international cost data and more a solutions manual is available to instructors only

## **Cost Engineering: Preprints of 3rd Symp. Held London, Oc 6-9, 1974**

1974

this thoroughly rewritten and updated third edition offers comprehensive coverage of cost engineering emphasizing capital projects and focusing on both estimating and cost control maintaining and enhancing the style of presentation that made the previous editions so popular

applied cost engineering third edition furnishes an entirely new and cost effective approach to estimating and controlling contingency a new chapter on systems and computer applications a new chapter on bulk material control expanded coverage of the factors that affect estimate accuracy an introduction to the novel concept of estimate and schedule classification additional end of text case studies and much more

## **Cost Engineering: Preprints of 3rd Symp. Held London, Oc 6-9, 1974**

1974

covering the life of a construction project from inception to completion this useful reference explains basic and advanced aspects of engineering economics cost estimating cost control cost forecasting planning and scheduling it serves both as a comprehensive introduction to cost engineering and as a practical on the job guide for any construction project where the object is economy construction cost engineering handbook describes the responsibilities of each member of the construction team and defines their relationship to project control analyzes project economics before during and after a project s finish examines various types and methods of estimating distinguishes between cost reporting and cost forecasting with valuable cost and scheduling integration examples considers planning and scheduling procedures such as the bar chart and sophisticated contemporary techniques highlights ways of avoiding common mistakes through data development and furnishes

computer samples for estimating cost control cost forecasting and scheduling illustrated with more than 180 excellent diagrams and drawings and featuring convenient appendixes on foreign and remote projects code of accounts and work breakdown structure and typical project activities construction cost engineering handbook is an indispensable reference for civil cost project plant design construction and industrial engineers and managers as well as architects building contractors and financial controllers involved with construction projects book jacket

## **Cost Engineering: Preprints of 3rd Symp. Held London, Oc 6-9, 1974**

1974

known as the blue book this fourth edition continues with the endorsement from the association of cost engineers the guide is designed to be an aid for student engineers in the design activities undertaken during their course and help young engineers in industry to compile their own set of cost data with much of the material in the third edition retained the major changes are new cost data up dated cost index information which has been donated by industrialists and short cut estimating techniques up dated

## **Applied Cost Engineering, Third Edition**

1996-11-05

aace international is proud to offer skills and knowledge of cost engineering 6th edition this education board publication provides comprehensive and in depth information on a wide range of cost engineering subjects and will prove to be a valuable resource to any individual seeking professional growth or pursuing an aace international certification the authors of the individual chapters are well known and well respected members of the cost engineering community who brought their knowledge and wealth of experience to the creation of this publication this publication offers six sections comprising 34 chapters of content on topics such as cost estimating project planning value engineering and strategic asset management to name a few

## **Construction Cost Engineering Handbook**

1988-03-30

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

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## Guide to Capital Cost Estimating

2000

the most effective way to generate an estimate of a new product's cost engineering change cost or innovation cost is through a detailed cost investigation analysis of the available materials and processes leads to the most economical and financial decisions now in its third edition realistic cost estimating for manufacturing has been used by students and practitioners since 1968 in this endeavor revised and expanded the book recognizes the extremely important role estimating is playing in today's highly competitive global economy realistic cost estimating for manufacturing provides a survey of the myriad manufacturing processes and practices and combines this with in depth explanations and examples of costing methods and tools a comprehensive standardized approach to their application is given among the manufacturing processes surveyed are machining casting stamping forging welding plastics technology finishing and rapid prototyping to develop realistic baseline estimates an engineering or costing professional must have an in depth understanding of costing methods and techniques as a fundamental reference the book provides insight into the art science and functions of cost estimation in a wide range of activities product design and manufacturing engineering change control proposal development make or buy studies identifying cost reduction opportunities component costing reverse engineering benchmarking and examining alternative processes materials machines and tooling as examples it will aid the practitioner in efforts to justify the replacement or improvement of existing technology with new creative solutions perform a feasibility study develop a basis for cost oriented decision support

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improve supply chain evaluation and sourcing analysis and minimize costs the third edition has been greatly enhanced with new chapters and material dedicated to the roles of economics and finance cost reduction continuous improvement plastic parts electronics cost estimating costing studies advanced manufacturing processes and quality costs further the existing chapters have been significantly expanded to include new processes and operations and examples to enhance learning since nontraditional technology is widely applied in manufacturing its costing aspects are also explored five appendices provide additional information on productivity based on efficiency cost reduction matching part features to manufacturing processes packaging cost and inspection and measurement costs as with its previous editions instructors of cost estimating courses can rely on the book to provide a solid foundation for manufacturing engineering courses and programs of study the book is also useful for on the job training courses for engineers managers estimators designers and practitioners it can be applied in seminars and workshops specifically dedicated to product or component cost reduction alternative cost analysis engineering change cost control or proposal development as in the previous editions there are multiple equations and calculation examples as well as end of chapter questions to test student s knowledge an instructor s guide is also available

## **Skills and Knowledge of Cost Engineering 6th Edition**

2015-12-10

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

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covered include project evaluation project management and planning and scheduling

## **Project and Cost Engineers' Handbook**

2004-11-30

in today's hyper competitive global marketplace a manufacturing company needs a competitive edge if it is to survive and grow that edge could be anything from superior manufacturing technology to innovative product design from patent protection to solid well established customer relationships one competitive edge available to all manufacturers but realized by only a few is the ability to accurately measure control and optimize costs throughout a product's entire life cycle the lack of a methodology to engineer cost optimization into every product makes attaining and maintaining profitability all that the more difficult cost engineering provides a means for a manufacturer to achieve and sustain profitability by designing and manufacturing products to specific cost requirements it incorporates a variety of proven methodologies including cost estimating cost control and cost optimization features describes the components and organization of an effective cost optimization process provides detailed explanations of cost estimating techniques for many of the most common manufacturing processes explains the selection and use of appropriate cost allocation methods presents the fundamentals of cost based negotiation includes both proper and improper executions of cost engineering principles the details presented in this book are important to design engineers manufacturing engineers buyers accountants cost estimators cost optimization specialists and their managers and provides ceos coos general managers product line managers and plant managers with

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guidance on improving and sustaining profitability

## **Realistic Cost Estimating for Manufacturing, 3rd Edition**

2016-01-04

chemical engineering design second edition deals with the application of chemical engineering principles to the design of chemical processes and equipment revised throughout this edition has been specifically developed for the u s market it provides the latest us codes and standards including api asme and isa design codes and ansi standards it contains new discussions of conceptual plant design flowsheet development and revamp design extended coverage of capital cost estimation process costing and economics and new chapters on equipment selection reactor design and solids handling processes a rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and excel spreadsheet calculations plus over 150 patent references for downloading from the companion website extensive instructor resources including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors this text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken plus graduates and lecturers tutors and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors new to this edition revised organization into part i process design and part ii plant design the broad themes of part i are flowsheet development economic analysis safety and environmental impact and optimization part ii contains chapters on equipment design and selection that can be used as

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supplements to a lecture course or as essential references for students or practicing engineers working on design projects new discussion of conceptual plant design flowsheet development and revamp design significantly increased coverage of capital cost estimation process costing and economics new chapters on equipment selection reactor design and solids handling processes new sections on fermentation adsorption membrane separations ion exchange and chromatography increased coverage of batch processing food pharmaceutical and biological processes all equipment chapters in part ii revised and updated with current information updated throughout for latest us codes and standards including api asme and isa design codes and ansi standards additional worked examples and homework problems the most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries a rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and excel spreadsheet calculations plus over 150 patent references for downloading from the companion website extensive instructor resources 1170 lecture slides plus fully worked solutions manual available to adopting instructors

## **International Cost Engineering Congress // International Cost Engineering Congress ; 3**

1974

the book focuses on analyzing and proposing costing and pricing models to be used in autonomous

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manufacturing systems with respect to different effective parameters and factors in such a high tech environment within some applied cases

## **Cost Engineering Management Techniques**

1984-05-11

the third edition reflects the use of computers and their expansion into the business engineering and scientific community computer problems are now treated in areas of polynomial mathematics differential equations and linear algebra

## ***Project and Cost Engineers' Handbook, Third Edition,***

1992-11-19

p this thoroughly rewritten and updated third edition offers comprehensive coverage of cost engineering emphasizing capital projects and focusing on both estimating and cost control maintaining and enhancing the style of presentation that made the previous editions so popular applied cost engineering third edition furnishes an entirely new and cost effective approach to estimating and controlling contingency a new chapter on systems and computer applications a new chapter on bulk material control expanded coverage of the factors that affect estimate accuracy an introduction to the novel concept of estimate and schedule classification additional end of text case

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studies and much more p

## **Cost Engineering**

2020-04-28

engineering economic and cost analysis is a practical introduction for those engineering students and professional practitioners who are new to the study of engineering economics

## **Chemical Engineering Design**

2012-01-25

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 engineering equipment and construction and labour costs

## ***Cost Engineering and Pricing in Autonomous Manufacturing***

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## ***Systems***

2019-03-12

bottom line for a holistic view of chemical engineering design this book provides as much if not more than any other book available on the topic extract from chemical engineering resources review chemical engineering design is a complete course text for students of chemical engineering written for the senior design course and also suitable for introduction to chemical engineering courses it covers the basics of unit operations and the latest aspects of process design equipment selection plant and operating economics safety and loss prevention it is a textbook that students will want to keep through their undergraduate education and on into their professional lives

## **Jelen's Cost and Optimization Engineering**

1991

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

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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

## **Applied Cost Engineering**

1982

this book is designed to introduce designers engineers technologists estimators project managers and financial analysts as well as students in engineering and business to strategic cost tools for project cost evaluations the three main sections are as follows 1 cost relationships financial statements and performance measures this section describes the relationships between cash flows and profits the relationships between financial statements and the purcell diagram and the issues of cost estimating time based breakeven analysis and time based earned schedule 2 tools for economic evaluations this section considers the basic mathematical relations used behind the economic equations and factors discrete and continuous interest depreciation terms and methods and the present value of principal approach for evaluating loans 3 methods for project evaluation and risk analysis this section considers payback periods present worth analysis return on investment internal rate of return benefit cost ratios and positive negative project balances risk techniques of sensitivity analysis optimistic pessimistic analysis discrete probability examples and continuous probability models using the normal and

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triangular distributions

## **Transactions of the 7th International Cost Engineering Congress**

1998

this book is a collection of papers presented at the 7th ispe international conference on concurrent engineering ce research and applications the papers deal with different topics providing information on information modelling ce in virtual environment and standards in ce

## **Engineering Economic and Cost Analysis**

1997-02-26

least the author wishes to thank his constantly helpful wife maggie and his secretary pat weimer the former for her patience encouragement and for acting as a sounding board and the latter who toiled endlessly cheerfully and most competently on the book s preparation contents preface iii 1 introduction 1 frequently used economic studies 2 basic economic subjects 3 priorities 3 problems 6 appendixes 6 references 6 2 equipment cost estimating 8 manufacturers quotations 8 estimating charts 10 size factoring exponents 11 inflation cost indexes 13 installation factor 16 module factor 18

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estimating accuracy 19 estimating example 19 references 21 3 plant cost estimates 22 accuracy and costs of estimates 22 cost overruns 25 plant cost estimating factors 26 equipment installation 28 instrumentation 30 v vi contents piping 30 insulation 30 electrical 30 buildings 32 environmental control 32 painting fire protection safety miscellaneous 32 yard improvements 32 utilities 32 land 33 construction and engineering expense contractor s fee contingency 33 total multiplier 34 complete plant estimating charts 34 cost per ton of product 35 capital ratio turnover ratio 35 factoring exponents 37 plant modifications 38 other components of total capital investment 38 off site facilities 38 distribution facilities 39 research and development engineering licensing 40 working capital 40

## **The Engineer's Cost Handbook**

2012-01-13

this book presents an operational tool for decision making under uncertainty in any engineering design it synthesizes classical decision making methods such as multi attribute utility theory analytic hierarchy process with game theory and quantum decision theory it demonstrates the implementation of the value driven design philosophy in the engineering design framework value related to the designed system s capabilities and lifecycle cost is used to compare different alternatives through the appropriate value model game theory as an optimization tool is used to successfully address the stakeholders preferences in a functional outcome focused way a quantum based decision making model is also developed to capture the complexity of human decision making related with risk attitude in the presence of ambiguity and uncertainty apart from rationality the

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decision makers biases emotions and subjective feelings are also captured in this model

## **Chemical Engineering Design**

2004

topics covered include design technologies and applications fe simulation for concurrent design and manufacture methodologies knowledge engineering and management ce within virtual enterprises and ce the future

## **Cost Engineering**

2023-07-28

the field of engineering is becoming increasingly interdisciplinary and there is an ever growing need for engineers to investigate engineering and scientific resources outside their own area of expertise however studies have shown that quality information finding skills often tend to be lacking in the engineering profession using the engineerin

# **Estimating Costs of Air Pollution Control**

2022-06-01

in today s hypercompetitive global marketplace accurate costestimating is crucial to bottom line results nowhere is this moreevident than in the design and development of new products andservices among managing engineers responsible for developingrealistic cost estimates for new product designs the number onesource of information and guidance has been the cost estimator sreference manual comprehensive authoritative and practical the manual instructsreaders in the full range of cost estimating techniques andprocedures currently used in the fields of development testing manufacturing production construction software generalservices government contracting engineering services scientificprojects and proposal preparation the authors clearly explain howto go about gathering the data essential to preparing a realisticestimate of costs and guide the reader step by step through eachprocedure this new second edition incorporates a decade of progress in themethods procedures and strategies of cost estimating all thematerial has been updated and five new chapters have been added toreflect the most recent information on such increasingly importanttopics as activity based costing software estimating design to cost techniques and cost implications of new concurrentengineering and systems engineering approaches to projects indispensable to virtually anyone whose work requires accurate costestimates the cost estimator s reference manual will be especiallyvaluable to engineers estimators accountants and contractors ofproducts projects processes and services to both government andindustry the essential ready reference for the techniques methods andprocedures of cost estimating cost estimator s reference manual second edition

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indispensable for anyone who depends on accurate cost estimates forengineering projects the cost estimator s reference manual guidesthe user through both the basic and more sophisticated aspects ofthe estimating process authoritative and comprehensive the manualeamlessly integrates the many functions accounting financial statistical and management of modern cost estimating practice its broad coverage includes estimating procedures applied to suchareas as production software development general services testing government contracting manufacturing engineering proposal preparation scientific projects construction this updated and expanded second edition incorporates all the mostimportant recent developments in cost estimating such asactivity based costing software estimating design to costtechniques computer aided estimating tools concurrentengineering and life cycle costing for engineers estimators accountants planners and others whoare involved in the cost aspects of projects the cost estimator sreference manual is an invaluable information source that will payfor itself many times over

## **Strategic Cost Fundamentals**

2023-06-14

this book provides an overview of training and teaching methods as well as education strategies for additive manufacturing am and its application in different business sectors it presents real world applications and case studies to demonstrate the key practical and theoretical fundamentals of am training written by international experts from the field additive manufacturing is a rapidly developing technology and having a well trained workforce is essential accordingly readers are introduced to new

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training approaches and recent breakthroughs that can facilitate and accelerate the design application and implementation of am the book s contributors discuss many topics to provide readers a fundamental grasp of am including collaboration among educational bodies and between industry and governments strategies for implementing am training new teaching methods training programs that provide alternative employment choices the need for certification by professional bodies and promoting awareness of am in society this book offers an excellent source of information for researchers and industrial engineers who are interested in expanding their am expertise and learning how to implement it it will also be of interest to readers who want to learn about the practicalities of adopting training and teaching for am

## **Advances in Concurrent Engineering**

2012-12-06

this work outlines a state of the art project control and trending programme focusing on advanced applied cost and schedule control skills for all phases of a project at both owner and contractor level it contains information on the three major aspects of the total project programme the techniques and procedures utilized for a project the experience and analytical ability of project personnel and the commitment and teamwork of a project group

# Chemical Engineering Economics

2018-12-13

parametric cost estimating models are flexible tools which bring engineering scientific and mathematical rigour to cost and schedule estimating but great tools alone will not keep programs affordable tools must be applied as part of a credible process if estimates and analyses are to be accepted complex major projects involving engineering hardware software service and it all suffer from two basic problems the project sponsors often struggle to specify the project effectively and project managers find themselves wrestling with unpredicted cost or schedule overruns everyone wants to be successful with the tools and solutions they use so this book is a comprehensive collection of methods with proven success the applications described by dale sherman and his co authors have evolved over 30 years of cost engineering experience during which time they have been matured by the parametric community each chapter explores a different application of parametrics based on real life case examples providing you with a detailed guide to the rationale and value of cost engineering in a different industry or program context systems cost engineering will help cost engineers project and program directors and the champions that support them to understand and apply parametrics to ensure that their programs offer a credible analysis of alternative cost options are never initiated with insufficient funding because of inaccurate estimates of cost or quantification of risks are never diverted from their objective because of a lack of credible cost management share and communicate knowledge of realistic and dynamic cost and productivity metrics amongst the program team are never derailed by surprise cost overruns or schedule delays the information in this

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book will give projects sponsors and bid managers confidence in the business case that they are developing and enable them to communicate a clear and transparent picture of the risks opportunities and benefits to stakeholders and project owners

## **Decision Making in Engineering Design**

2002-01-01

addressing the specific needs of engineers scientists and technicians this reference introduces engineering students to the basics of marketing human resource management employment relations personnel management and financial management this guide will help engineering students develop a sense for business and prepare them for the commercial and administrative dealings with customers suppliers contractors accountants and managers

## **Advances in Concurrent Engineering**

2006-08-23

the book is written in simple language and self explanatory reflects the image of the author's long experience in field and teaching as well the new edition of the book is a composite unit complete in itself the presentation of the matter is simple and excellent

## **Using the Engineering Literature**

1995-04-03

to satisfy demands for software systems that collect organize and utilize pollution prevention auditing design and implementation hundreds of software companies have developed and are marketing software systems that perform these functions co

## **Cost Estimator's Reference Manual**

2018-06-30

budgeting design to cost evaluation cost reduction pre construction activities bidding negotiating gmp contracts change order management in house project management controlled bidding policy sample forms

## ***Additive Manufacturing - Developments in Training and Education***

1996-05-01

the rise of the information age and the digital economy has dramatically changed engineering and other technology driven fields with tremendous advances in computing and communication systems major organizational upheavals all fueled by complexity globalization short cycle times and lean supply chains the functions of engineers have significantly changed engineers and similar professionals must be technically savvy and have product management and costing skills all while working in a distributed and often unstable environment this new edition textbook is updated to cover the integration of cost risk value scheduling and information technologies going beyond basic engineering economics engineering economics of life cycle cost analysis second edition offers a systems and life cycle or total ownership cost perspective it presents advanced costing techniques such as simulation based costing decision and risk analysis complex systems costing software big data and cloud computing estimation examples and problems demonstrating these techniques with real world applications are also included all engineers and similar professionals will find this book useful but it is mainly written for systems engineers engineering managers program product managers and industrial engineers the text can serve as a professional reference or for use with graduate courses on advanced engineering economic analysis and cost management and financial analysis for engineers

## **Effective Project Management Through Applied Cost and Schedule Control**

2017-03-02

**2015-08-18**

**24/26**

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## **Systems Cost Engineering**

2006

## **Management for Engineers, Technologists and Scientists**

2012-07-01

## **A Textbook of Estimating , Costing & Accounts ( Civil)**

1996-12-31

## **Pollution Prevention Software System Handbook**

2010-10-11

# **Construction Cost Management: Cost Engineering, Cost Controls & Controlled Bidding**

2023-06-30

## ***Engineering Economics of Life Cycle Cost Analysis***

1998

## **Process Industry Economics**

**2015-08-18**

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