

Chemical Engineering Plant Cost Index Cepci

Richard Turton

Biorefineries and Chemical Processes Jhuma Sadhukhan, Kok Siew Ng, Elias Martinez Hernandez, 2014-08-25 As the range of feedstocks, process technologies and products expand, biorefineries will become increasingly complex manufacturing systems. *Biorefineries and Chemical Processes: Design, Integration and Sustainability Analysis* presents process modelling and integration, and whole system life cycle analysis tools for the synthesis, design, operation and sustainable development of biorefinery and chemical processes. Topics covered include: Introduction: An introduction to the concept and development of biorefineries. Tools: Included here are the methods for detailed economic and environmental impact analyses; combined economic value and environmental impact analysis; life cycle assessment (LCA); multi-criteria analysis; heat integration and utility system design; mathematical programming based optimization and genetic algorithms. Process synthesis and design: Focuses on modern unit operations and innovative process flowsheets. Discusses thermochemical and biochemical processing of biomass, production of chemicals and polymers from biomass, and processes for carbon dioxide capture. Biorefinery systems: Presents biorefinery process synthesis using whole system analysis. Discusses bio-oil and algae biorefineries, integrated fuel cells and renewables, and heterogeneous catalytic reactors. Companion website: Four case studies, additional exercises and examples are available online, together with three supplementary chapters which address waste and emission minimization, energy storage and control systems, and the optimization and reuse of water. This textbook is designed to bridge a gap between engineering design and sustainability assessment, for advanced students and practicing process designers and engineers.

Finance for Engineers Frank Crundwell, 2008-03-11 With flair and an originality of approach, Crundwell brings his considerable experience to bear on this crucial topic. Uniquely, this book discusses the technical and financial aspects of decision-making in engineering and demonstrates these through case studies. It's a hugely important matter as, of course, engineering solutions and financial decisions are intimately tied together. The best engineers combine the technical and financial cases in determining new solutions to opportunities, challenges and problems. To get your project approved, no matter the size of it, the financial case must be clear and compelling. This book provides a framework for engineers and scientists to undertake financial evaluations and assessments of engineering or production projects.

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).

Optimization of Biomass-to-Liquid Plant Setups and Capacity Using Nonlinear Programming Lars-Peter

Lauven, 2011-10-12 Potentially rising oil prices caused by an increasing relative scarcity of mineral oil have far-reaching consequences for the transportation sector, the chemical industry and mineral oil companies in particular. As national laws in Germany require biofuels to be mixed into conventional fuel to an increasing extent (BioKraftQuG 2009), mineral oil companies need to identify economically competitive as well as technically feasible biofuel production processes to meet these requirements. A first generation of biofuels was introduced on a large scale but has been criticized for competing with the agricultural production of food and for yielding relatively modest quantities of fuel per hectare of agricultural land. For this reason, 2nd generation biofuel production pathways such as Biomass-to-Liquid (BtL), which convert lignocellulosic material into liquid hydrocarbons using Fischer-Tropsch synthesis, have been developed. While 2nd generation biofuels are superior to their 1st generation counterparts from a yield-per-hectare-perspective and cause less competition for agricultural soils, a significant disadvantage is the considerable investment required for the construction of Biomass-to-Liquid plants. The corresponding investment-related costs affect the competitiveness of 2nd generation biofuels negatively, leaving it in doubt whether BtL fuels could become an economically viable option. A frequently discussed way to improve specific investment-related costs is to increase plant sizes to improve economies of scale. While this improvement has been realized in several conventional kinds of plants like mineral oil refineries, power plants and Coal-to-Liquid plants, the application on BtL plants is complicated by the fact that larger plants are associated with higher specific biomass transportation costs. This is because a higher biomass input requires biomass to be transported over larger distances. The unresolved antagonism between economies of scale and specific biomass transportation costs has so far hindered the realization of BtL plants. The aim of this thesis is to develop a methodology to determine optimal BtL plant sizes by taking nonlinear factors into account. The methodology is required to determine a compromise between minimizing investment-related costs by applying economies of scale and minimizing specific biomass transportation costs by keeping the required transportation distances short. The optimal plant size is however influenced by a third influencing factor. Whether it is advantageous to transport biomass over a certain distance also depends on the value of a plant's products. Biomass-to-Liquid plants can have a variety of product

compositions depending on the catalyst and reaction temperature used in the biofuel synthesis reaction. Depending on which substances are produced and which are upgraded for sale, converted into fuels or combusted for electricity generation, both the value of the products and the required investment may differ considerably. While a number of processes, including biomass treatment and gasification, as well as the Fischer-Tropsch synthesis itself, are required for all considered plant setup alternatives, the choice of upgrading equipment may result in very dissimilar plant setups. By making the capacities of the individual upgrading processes the variables of the optimization model, economies of scale, specific biomass transportation costs and the products' value are considered simultaneously for the first time. The thesis primarily focuses on the implementation of an optimization model and its application on a variety of scenarios. These scenarios are intended to represent different plant setups and logistics concepts. In order to assess the scale of differences in profitability, the essential influencing factors determining the profitability of BtL plants were included into the model calculations. As the problem at hand is neither linear nor quadratic, it cannot be solved reliably using established solvers for these two classes of problems. Instead, several solvers designed to handle non-quadratic nonlinear multidimensional problems were applied to find the most suitable way to approach the solution of the problem. The objective function has been designed to maximize the annual profit resulting from plant construction and operation. Maximizing this annual profit is subject to a number of primarily technical constraints. These result from the mass balances of the plant, its electricity demand and the specific requirements of individual processes. In addition to securing the validity of the mass balances, these constraints also ensure that the entire Fischer-Tropsch product stream undergoes some kind of upgrading, separation or combustion treatment. The sum of all processes producing salable products is used to approximate the required capacity of the plant as a whole. The total plant capacity then serves to calculate the investment required for the other plant processes and the costs for the purchase and transportation of the required input biomass. Biomass transportation distances are approximated by the radius of an assumed circular area from which biomass is supplied to the plant. Using cost functions that divide transportation costs into fixed and variable parts makes it possible to approximate the effect of rising specific biomass transportation costs in case of increasing plant capacities. The investigated scenario calculations suggest that under the assumed circumstances, fuel oriented low-temperature Fischer-Tropsch-based BtL plants are relatively competitive as long as the tax exemptions in Germany are maintained, but become significantly less attractive without them. By contrast, the combined production of both fuels and chemicals using hightemperature Fischer-Tropsch synthesis appears to be a more promising alternative, as chemicals are expected to earn a higher income in scenarios without tax exemptions. A third option, the production of Substitute Natural Gas, appears to be relatively uncompetitive unless methane prices rise significantly. In addition to comparing the economic attractiveness of different potential product distributions, a number of concepts have been investigated which are intended to improve Biomass-to-Liquid economics. Decentralized pretreatment of biomass, e.g.

through fastpyrolysis, leads to larger optimal plant capacities, but the additional investment for the pretreatment units appears to overcompensate the improved economies of scale. By contrast, the combined use of train and road transportation was not assumed to be associated with additional investments. If train transportation is indeed feasible for a given plant location and specific biomass transportation costs are lower than for road transportation, combined traffic concepts should be used whenever possible. The construction of BtL plants in conjunction with mineral oil refineries is a way to reduce investment-related costs instead of transportation costs. While the resulting savings are significant for small BtL plants, they diminish if larger plant sizes are investigated. Cogasification of biomass with another input material is another way to reduce the costly transportation of biomass over large distances. Unless technical requirements significantly increase the cost of the gasification equipment, co-gasification concepts can improve the plant's profitability even at relatively low quantities of a second fuel. The choice of fuels is however restricted by the Renewable Energy Directive that needs to be abided by in order to ensure the eligibility for tax exemptions. In case of lignite and hard coal, fossil CO₂ emissions further complicate the application of co-gasification, as Renewable Energy Directive also limits the amount of fossil CO₂ that biofuel production is allowed to cause. As savings caused by such concepts depend on the relative inefficiency of the concept that they are applied on, the effect of the implementation of several improvements diminishes if these address the same cost item. In this work, the nonlinear effects of economies of scale and biomass transportation costs for increasing Biomass-to-Liquid plant capacities has been modeled on a product-upgradingprocess basis for the first time. Potential investors and plant operators of Biomass-to-Liquid plants are thus enabled to determine both the optimal plant size and the most promising choice of products in order to maximize the prospective competitiveness of the plant.

Process Plant Equipment Michael D. Holloway,Chikezie Nwaoha,Oliver A. Onyewuenyi,2012-08-20 "Process Plant Equipment Book is another great publication from Wiley as a reference book for final year students as well as those who will work or are working in chemical production plants and refinery..." -Associate Prof. Dr. Ramli Mat, Deputy Dean (Academic), Faculty of Chemical Engineering, Universiti Teknologi Malaysia "...give[s] readers access to both fundamental information on process plant equipment and to practical ideas, best practices and experiences of highly successful engineers from around the world... The book is illustrated throughout with numerous black & white photos and diagrams and also contains case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book. An extensive list of references enables readers to explore each individual topic in greater depth..." -Stainless Steel World and Valve World, November 2012 Discover how to optimize process plant equipment, from selection to operation to troubleshooting From energy to pharmaceuticals to food, the world depends on processing plants to manufacture the products that enable people to survive and flourish. With this book as their guide, readers have the information and practical guidelines needed to select, operate, maintain, control, and troubleshoot process plant equipment so that it is efficient, cost-

effective, and reliable throughout its lifetime. Following the authors' careful explanations and instructions, readers will find that they are better able to reduce downtime and unscheduled shutdowns, streamline operations, and maximize the service life of processing equipment. *Process Plant Equipment: Operation, Control, and Reliability* is divided into three sections: Section One: Process Equipment Operations covers such key equipment as valves, pumps, cooling towers, conveyors, and storage tanks Section Two: Process Plant Reliability sets forth a variety of tested and proven tools and methods to assess and ensure the reliability and mechanical integrity of process equipment, including failure analysis, Fitness-for-Service assessment, engineering economics for chemical processes, and process component function and performance criteria Section Three: Process Measurement, Control, and Modeling examines flow meters, process control, and process modeling and simulation Throughout the book, numerous photos and diagrams illustrate the operation and control of key process equipment. There are also case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book. At the end of each chapter, an extensive list of references enables readers to explore each individual topic in greater depth. In summary, this text offers students, process engineers, and plant managers the expertise and technical support needed to streamline and optimize the operation of process plant equipment, from its initial selection to operations to troubleshooting.

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@wspc.com.

Sustainable Design Through Process Integration Mahmoud M. El-Halwagi, 2025-03-26 Sustainable Design through Process Integration: Fundamentals and Applications to Industrial Pollution Prevention, Resource Conservation, and Profitability Enhancement, Third Edition provides authoritative, comprehensive, and easy-to-follow coverage of the fundamental concepts and practical techniques on the use of process integration to maximize the efficiency and sustainability in industrial processes. Sections cover new information on the inclusion of sustainability objectives within different front-end loading stages of design, carbon management and monetization, design of renewable energy systems and integration with

existing infrastructure, incorporation of process safety in design, resilience principles and design approaches, modular design, industrial symbiosis, and open-ended mini projects on sustainable design. - Provides authoritative, comprehensive, and easy-to-follow coverage of the fundamental concepts and practical techniques in the use of process integration to maximize the efficiency and sustainability of industrial processes - Helps readers systematically develop rigorous targets that benchmark the performance of industrial processes and develop cost-effective implementations - Contains state-of-the-art process integration approaches and applications, including graphical, algebraic, and mathematical techniques - Covers applications, including process economics, targeting for conservation of mass and energy, synthesis of innovative processes, retrofitting of existing systems, integration of process components, and in-process pollution prevention - Includes numerous examples and case studies for a broad array of industrial systems and processes

Chemical Engineering ,2007

Handbook of Chemical Engineering Calculations Nicholas Chohey,2003-08-26 * Provides detailed procedures for performing hundreds of chemical engineering calculations along with fully worked-out examples

Chemical Engineering Dilip K. Das,Rajaram K. Prabhudesai,2005 Recently expanded to cover both the breadth and depth topics of the PE exam, this review covers key equations, concepts, analytical techniques, and practical applications. Also includes an overview of the exam and recommendations on how to prepare.

Handbook of Chemical Engineering Calculations, Fourth Edition Tyler Hicks,Nicholas Chohey,2012-07-10 Solve chemical engineering problems quickly and accurately Fully revised throughout with new procedures, Handbook of Chemical Engineering Calculations, Fourth Edition shows how to solve the main process-related problems that often arise in chemical engineering practice. New calculations reflect the latest green technologies and environmental engineering standards. Featuring contributions from global experts, this comprehensive guide is packed with worked-out numerical procedures. Practical techniques help you to solve problems manually or by using computer-based methods. By following the calculations presented in this book, you will be able to achieve accurate results with minimal time and effort. Coverage includes: Physical and chemical properties Stoichiometry Phase equilibrium Chemical reaction equilibrium Reaction kinetics, reactor design, and system thermodynamics Flow of fluids and solids Heat transfer Distillation Extraction and leaching Crystallization Absorption and stripping Liquid agitation Size reduction Filtration Air pollution control Water pollution control Biotechnology Cost engineering

Handbook of Chemical Engineering Calculations, Fourth Edition Tyler G. Hicks,Nicholas P. Chohey,2012-07-30 Solve chemical engineering problems quickly and accurately Fully revised throughout with new procedures, Handbook of Chemical Engineering Calculations, Fourth Edition shows how to solve the main process-related problems that often arise in chemical engineering practice. New calculations reflect the latest green technologies and environmental engineering

standards. Featuring contributions from global experts, this comprehensive guide is packed with worked-out numerical procedures. Practical techniques help you to solve problems manually or by using computer-based methods. By following the calculations presented in this book, you will be able to achieve accurate results with minimal time and effort. Coverage includes: Physical and chemical properties Stoichiometry Phase equilibrium Chemical reaction equilibrium Reaction kinetics, reactor design, and system thermodynamics Flow of fluids and solids Heat transfer Distillation Extraction and leaching Crystallization Absorption and stripping Liquid agitation Size reduction Filtration Air pollution control Water pollution control Biotechnology Cost engineering

Chemical Engineering Design Gavin Towler, Ray Sinnott, 2008 Product Description: 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. Provides students with a text of unmatched relevance for the Senior Design Course and Introductory Chemical Engineering Courses; Teaches commercial engineering tools for simulation and costing; Comprehensive coverage of unit operations, design and economics; Strong emphasis on HS&E issues, codes and standards, including API, ASME and ISA design codes and ANSI standards; 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 include lecture slides, image bank and solutions manual for adopting instructors. For further information: <http://textbooks.elsevier.com>.

Analysis, Synthesis, and Design of Chemical Processes Richard Turton, 2012 Process design is the focal point of chemical engineering practice: the creative activity through which engineers continuously improve facility operations to create products that enhance life. Effective chemical engineering design requires students to integrate a broad spectrum of knowledge and intellectual skills, so they can analyze both the big picture and minute details - and know when to focus on each. Through three previous editions, this book has established itself as the leading resource for students seeking to apply what they've learned in real-world, open-ended process problems. The authors help students hone and synthesize their design skills through expert coverage of preliminary equipment sizing, flowsheet optimization, economic evaluation, operation and control, simulation, and other key topics. This new Fourth Edition is extensively updated to reflect new technologies, simulation techniques, and process control strategies, and to include new pedagogical features including concise summaries and end-of-chapter lists of skills and knowledge.--Pub. desc.

CAPE L. Puigjaner, Georges Heyen, 2006

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Separation Process Engineering Phillip C. Wankat, 2012 The Definitive, Fully Updated Guide to Separation Process Engineering-Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering, Third Edition, is the most comprehensive, accessible guide available on modern separation processes and the fundamentals of mass transfer. Phillip C. Wankat teaches each key concept through detailed, realistic examples using real data-including up-to-date simulation practice and new spreadsheet-based exercises. Wankat thoroughly covers each of today's leading approaches, including flash, column, and batch distillation; exact calculations and shortcut methods for multicomponent distillation; staged and packed column design; absorption; stripping; and more. In this edition, he also presents the latest design methods for liquid-liquid extraction. This edition contains the most detailed coverage available of membrane separations and of sorption separations (adsorption, chromatography, and ion exchange). Updated with new techniques and references throughout, Separation Process Engineering, Third Edition, also contains more than 300 new homework problems, each tested in the author's Purdue University classes. Coverage includes Modular, up-to-date process simulation examples and homework problems, based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion, including both Fickian and Maxwell-Stefan approaches Detailed discussions of liquid-liquid extraction, including McCabe-Thiele, triangle and computer simulation analyses; mixer-settler design; Karr columns; and related mass transfer analyses Thorough introductions to adsorption, chromatography, and ion exchange-designed to prepare students for advanced work in these areas Complete coverage of membrane separations, including gas permeation, reverse osmosis, ultrafiltration, pervaporation, and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation, diffusion, mass transfer, and membrane separation
Proceedings of the ... International Conference on Nuclear Engineering, 2006

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