

Jelen Cost And Optimization Engineering

Encyclopedia of Polymer Science and Engineering
Managing Projects for Success
Cost and Optimization Engineering
Cost Engineering Life Cycle Costing
Project and Cost Engineers' Handbook
Chemical Engineering Design
Thermal Design and Optimization
Analysis, Synthesis and Design of Chemical Processes
Project and Cost Engineers' Handbook, Third Edition
Transactions of the American Association of Cost Engineers
Engineering Design
Project Planning and Control Using Primavera Contractor Version 6
Fundamentals of Cost Engineering in the Chemical Industry
The Development of Packaging Costing Methodology and the Optimization of Packaging Cost Model
Reliability Engineering in Systems Design and Operation
Jelen's Cost and Optimization Engineering
Financial Decision Making in the Process Industry
Professional Construction Management
Management Information Guide
Singapore National Bibliography
Perry's Chemical Engineers' Handbook
CRC Handbook of Thermal Engineering
Transactions of the American Association of Cost Engineers
Marine Engineering Economics and Cost Analysis
Annual Meeting of the American Association of Cost Engineers
Elements of Thermal-fluid System Design
Naval Engineers Journal
Basic Cost Engineering
Project and Cost Engineers' Handbook
Handbook of Civil Engineering Calculations, Second Edition
Plant Design and Economics for Chemical Engineers
Control and Management of Capital Projects
Improving the Accuracy of Early Cost Estimates for Federal Construction Projects
Encyclopedia of Chemical Processing and Design
Construction Management
International Journal of Production Economics
Journal of Construction Engineering and Management
Basic Cost Engineering, Third Edition
AIE Transactions

Encyclopedia of Polymer Science and Engineering

The second edition has been reorganized so that the book starts directly with a consideration of the design process, and then goes on to show how design fits into society, the engineering organization, and technology innovation process. Much greater emphasis is given to ideas for conceptual design.

Managing Projects for Success

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.

Cost and Optimization Engineering

The leading integrated chemical process design guide: Now with extensive new coverage and more process designs More than ever, effective design is the focal point of sound chemical engineering. Analysis, Synthesis, and Design of Chemical Processes, Fourth Edition, presents design as a creative process that integrates both the big picture and the small details—and knows which to stress when, and why. Realistic from start to finish, this updated edition moves readers beyond classroom exercises into open-ended, real-world process problem solving. The

authors introduce integrated techniques for every facet of the discipline, from finance to operations, new plant design to existing process optimization. This fourth edition adds new chapters introducing dynamic process simulation; advanced concepts in steady-state simulation; extensive coverage of thermodynamics packages for modeling processes containing electrolyte solutions and solids; and a concise introduction to logic control. "What You Have Learned" summaries have been added to each chapter, and the text's organization has been refined for greater clarity. Coverage Includes Conceptualization and analysis: flow diagrams, batch processing, tracing, process conditions, and product design strategies Economic analysis: capital and manufacturing costs, financial calculations, and profitability analysis Synthesis and optimization: principles, PFD synthesis, simulation techniques, top-down and bottom-up optimization, pinch technology, and software-based control Advanced steady-state simulation: goals, models, solution strategies, and sensitivity and optimization studies Dynamic simulation: goals, development, solution methods, algorithms, and solvers Performance analysis: I/O models, tools, performance curves, reactor performance, troubleshooting, and "debottlenecking" Societal impact: ethics, professionalism, health, safety, environmental issues, and green engineering Interpersonal and communication skills: improving teamwork and group effectiveness This title draws on more than fifty years of innovative chemical engineering instruction at West Virginia University and the University of Nevada, Reno. It includes suggested curricula for single-semester and year-long design courses, case studies and practical design projects, current equipment cost data, and extensive preliminary design information that can be used as the starting point for more detailed analyses. About the CD-Rom and Web Site The CD contains the newest version of CAPCOST, a powerful tool for evaluating fixed capital investment, full process economics, and profitability. The heat exchanger network software, HENSAD, is also included. The CD also contains an additional appendix presenting preliminary design information for fifteen key chemical processes, including four new to this edition: shift reaction; acid-gas removal via physical solvent; H₂S removal from a gas stream using the Claus process; and coal gasification. The CD also includes six additional projects, plus chapters on outcomes assessment, written and oral communications, and a written report case study. Sixty additional projects and twenty-four more problems are available at www.che.cemr.wvu.edu/publications/projects.

Cost Engineering

Life Cycle Costing

Project and Cost Engineers' Handbook

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.

Chemical Engineering Design

Thermal Design and Optimization

The CRC Handbook of Thermal Engineering, Second Edition, is a fully updated version of this respected reference work, with chapters written by leading experts. Its first part covers basic concepts, equations and principles of thermodynamics, heat transfer, and fluid dynamics. Following that is detailed coverage of major application areas, such as bioengineering, energy-efficient building systems, traditional and renewable energy sources, food processing, and aerospace heat transfer topics. The latest numerical and computational tools, microscale and nanoscale engineering, and new complex-structured materials are also presented. Designed for easy reference, this new edition is a must-have volume for engineers and researchers around the globe.

Analysis, Synthesis and Design of Chemical Processes

Project and Cost Engineers' Handbook, Third Edition,

Transactions of the American Association of Cost Engineers

Marine Engineering Economics and Cost Analysis is intended for students and practitioners of ship design, shipbuilding, and ship operations who want to understand and apply the concepts of engineering economics to routine engineering decisions. Computer software is included to aid in completing the analyses required. "To my knowledge this is the first text published during my fifty-year career that deals with the methods of economic evaluation of maritime decision alternatives from an engineering viewpoint. This book applies engineering economics and cost analysis to the maritime industry and sets forth in a logical sequence the method to reach the most efficient vessel from both a cost and capacity-required approach."--from the foreword by Captain Warren G. Leback, former maritime administrator.

Engineering Design

Project Planning and Control Using Primavera Contractor Version 6

Fundamentals of Cost Engineering in the Chemical Industry

The fifth edition of Plant Design and Economics for Chemical Engineers is a major revision of the popular fourth edition. There are new chapters on process synthesis, computer-aided design, and design of chemical reactors. A traditionally strong feature of the text, economic analysis, has been revamped and updated. Another strength, equipment sizing and cost estimation, is updated and expanded as well. These improvements also reflect changes in equipment availability. The numerous real examples throughout the book include computer or hand solutions, and often both. There is a new increased emphasis on computer use in design, economic evaluation, and optimization. Concepts, strategies, and approaches to computer use are featured. These concepts are not tied to particular software programs and therefore apply to wide a range of applications software, of both current and future release. This widely used text is now more useful than ever, providing a "one-stop" guide to chemical process design and evaluation.

The Development of Packaging Costing Methodology and the Optimization of Packaging Cost Model

Written for project management professionals who understand how projects are managed and wish to learn how to plan and control projects with or without resources using Primavera Contractor. Also available as spiral binding (9781921059261) designed for training courses and learning the software.

Reliability Engineering in Systems Design and Operation

Jelen's Cost and Optimization Engineering

Financial Decision Making in the Process Industry

Professional Construction Management

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.

Management Information Guide

Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

Singapore National Bibliography

The influences of modern technology and competitive environments have a direct impact on the outcomes of projects, irrespective of project type. This text is a response to the growing need for better management which many people find necessary when leading or working within teams or groups undertaking a project.

Increasingly, people in a working environment are engaged in organised practices and utilising resources, facing the challenge of having to meet, or better, predetermined cost budgets and strict timetables. The fact that most work is organised into programs or singular projects means that people require increasing guidance in project management.

Perry's Chemical Engineers' Handbook

"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. * 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: 1170 lecture slides on CD plus fully worked solutions manual

CRC Handbook of Thermal Engineering

Transactions of the American Association of Cost Engineers

Marine Engineering Economics and Cost Analysis

Annual Meeting of the American Association of Cost Engineers

Numerous design-oriented end-of-chapter problems also provide realistic settings for application of the material discussed.

Elements of Thermal-fluid System Design

Naval Engineers Journal

Basic Cost Engineering

Project and Cost Engineers' Handbook

Handbook of Civil Engineering Calculations, Second Edition

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 impact of the Internet on project and cost engineering, and examines the field's ever increasing reliance on software. It also offers a detailed checklist of actions that must be taken to assure the successful completion of an international project, and presents updated information on AACE International certification programs.

Plant Design and Economics for Chemical Engineers

Control and Management of Capital Projects

Improving the Accuracy of Early Cost Estimates for Federal Construction Projects

Manage everyday calculations instantly and accurately-saving you time in the design, construction, and maintenance of all types of structures Covering all aspects of civil engineering calculations in an easy-to-understand format, the new edition of the Handbook of Civil Engineering Calculations is now revised and updated with over 500 key calculations that show you exactly how to compute the desired values for a particular design-going quickly from data to finished result. Using both customary and SI units, this comprehensive engineer's must-have resource is exactly what you need to solve the civil engineering problems that come your way. From structural steel to reinforced concrete, from bridges and dams to highways and roads, Handbook of Civil Engineering Calculations, 2e, lets you handle all of these design calculations quickly-and more importantly, correctly. NEW TO THIS EDITION: Updated calculation procedures using the latest applicable design codes for everything-from structural steel to reinforced concrete, from water supply to highways, freeways, roads, and more A wealth of new illustrated calculation procedures to provide better guidance for the design engineer New civil-engineering data on "green" buildings and their design, better qualifying them for LEED (Leadership in Energy and Environmental Design) ratings Inside This Cutting-Edge Engineering Calculations Guide- Structural Steel Engineering and Design • Reinforced and Prestressed Concrete Engineering and Design • Timber Engineering • Soil Mechanics • Surveying, Route Design, and Highway Bridges • Fluid Mechanics, Pumps, Piping, and Hydro Power • Water Supply

Encyclopedia of Chemical Processing and Design

The management of construction projects is a wide ranging and challenging discipline in an increasingly international industry, facing continual challenges and demands for improvements in safety, in quality and cost control, and in the avoidance of contractual disputes. Construction Management grew out of a Leonardo da Vinci project to develop a series of Common Learning Outcomes for European Managers in Construction. Financed by the European Union, the project aimed to develop a library of basic materials for developing construction management skills for use in a pan-European context. Focused exclusively on the management of the construction phase of a building project from the contractor's point of view, Construction Management covers the complete range of topics of which mastery is required by the construction management professional for the effective delivery of new construction projects. With the continued internationalisation of the construction industry, Construction Management will be required reading for undergraduate and postgraduate students across Europe.

Construction Management

International Journal of Production Economics

Reference work for chemical and process engineers. Newest developments, advances, achievements and methods in various fields.

Journal of Construction Engineering and Management

A comprehensive and rigorous introduction to thermal system design from a contemporary perspective Thermal Design and Optimization offers readers a lucid introduction to the latest methodologies for the design of thermal systems and emphasizes engineering economics, system simulation, and optimization methods. The methods of exergy analysis, entropy generation minimization, and thermoeconomics are incorporated in an evolutionary manner. This book is one of the few sources available that addresses the recommendations of the Accreditation Board for Engineering and Technology for new courses in design engineering. Intended for classroom use as well as self-study, the text provides a review of fundamental concepts, extensive reference lists, end-of-chapter problem sets, helpful appendices, and a comprehensive case study that is followed throughout the text. Contents include: * Introduction to Thermal System Design * Thermodynamics, Modeling, and Design Analysis * Exergy Analysis * Heat Transfer, Modeling, and Design Analysis * Applications with Heat and Fluid Flow * Applications with Thermodynamics and Heat and Fluid Flow * Economic Analysis * Thermoeconomic Analysis and Evaluation * Thermoeconomic Optimization Thermal Design and Optimization offers engineering students, practicing engineers, and technical managers a comprehensive and rigorous introduction to thermal system design and optimization from a distinctly contemporary perspective. Unlike traditional books that are largely oriented toward design analysis and components, this forward-thinking book aligns itself with an increasing number of active designers who believe that more effective, system-oriented design methods are needed. Thermal Design and Optimization offers a lucid presentation of thermodynamics, heat transfer, and fluid mechanics as they are applied to the

design of thermal systems. This book broadens the scope of engineering design by placing a strong emphasis on engineering economics, system simulation, and optimization techniques. Opening with a concise review of fundamentals, it develops design methods within a framework of industrial applications that gradually increase in complexity. These applications include, among others, power generation by large and small systems, and cryogenic systems for the manufacturing, chemical, and food processing industries. This unique book draws on the best contemporary thinking about design and design methodology, including discussions of concurrent design and quality function deployment. Recent developments based on the second law of thermodynamics are also included, especially the use of exergy analysis, entropy generation minimization, and thermoeconomics. To demonstrate the application of important design principles introduced, a single case study involving the design of a cogeneration system is followed throughout the book. In addition, Thermal Design and Optimization is one of the best new sources available for meeting the recommendations of the Accreditation Board for Engineering and Technology for more design emphasis in engineering curricula. Supported by extensive reference lists, end-of-chapter problem sets, and helpful appendices, this is a superb text for both the classroom and self-study, and for use in industrial design, development, and research. A detailed solutions manual is available from the publisher.

Basic Cost Engineering, Third Edition

AIE Transactions

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#) [HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)