

Aspen Hysys Simulation Basis Manual

Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications
 Teach Yourself the Basics of Aspen Plus
 Chemical Engineering Process Simulation
 Process plant construction estimating standards
 SA Mining
 Chemical Process Design, Simulation and Optimization
 A Real-time Approach to Distillation Process Control
 CRC Handbook of Applied Thermodynamics
 Handbook of Vegetables and Vegetable Processing
 Integrated Design and Simulation of Chemical Processes
 An Introduction To Chemical Engineering
 Scientific and Technical Aerospace Reports
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 Separation Process Engineering
 Introduction to Chemical Engineering Computing
 Computer Methods in Chemical Engineering
 Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications
 Advances in Natural Gas: Formation, Processing, and Applications. Volume 8: Natural Gas Process Modelling and Simulation

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Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications Prentice Hall Professional
 Chemical Engineering Process Simulation, Second Edition guides users through chemical processes and unit operations using the main simulation software used in the industrial sector. The book helps predict the characteristics of a process using mathematical models and computer-aided process simulation tools, as well as how to model and simulate process performance before detailed process design takes place. Content coverage includes steady-state and dynamic simulation, process design, control and optimization. In addition, readers will learn about the simulation of natural gas, biochemical, wastewater treatment and batch processes. Provides an updated and expanded new edition that contains 60-70% new content Guides readers through chemical processes and unit operations using the primary simulation software used in the industrial sector Covers the fundamentals of process simulation, theory and advanced applications Includes case studies of various difficulty levels for practice and for applying developed skills Features step-by-step guides to using UniSim Design, SuperPro Designer, Symmetry, Aspen HYSYS and Aspen Plus for process simulation novices
Teach Yourself the Basics of Aspen Plus Springer
 This book presents a concise framework for assessing technical and sustainability impacts of existing biorefineries and provides a possible road map for development of novel biorefineries. It offers a detailed, integrated approach to evaluate the entire biomass production chain, from the agricultural feedstock production and transportation, to the industrial conversion and commercialization & use of products. The Brazilian sugarcane biorefinery is used as a case study; however, the methods and concepts can be applied to almost any biomass alternative. Chapters explore the main issues regarding biorefinery assessment, including feedstock production and transportation modeling, biofuels and green chemistry products, as well as assessment of sustainability impacts. This book is a valuable source of information to researchers in bioenergy, green chemistry and sustainability fields. It also provides a useful framework for government agencies, investors and the energy industry to evaluate and predict the success of current and future biorefinery alternatives.
Chemical Engineering Process Simulation McGraw Hill Professional
 Chemical Engineering Process Simulation is ideal for students, early career researchers, and practitioners, as it guides you through chemical processes and unit operations using the main

simulation softwares that are used in the industrial sector. This book will help you predict the characteristics of a process using mathematical models and computer-aided process simulation tools, as well as model and simulate process performance before detailed process design takes place. Content coverage includes steady and dynamic simulations, the similarities and differences between process simulators, an introduction to operating units, and convergence tips and tricks. You will also learn about the use of simulation for risk studies to enhance process resilience, fault finding in abnormal situations, and for training operators to control the process in difficult situations. This experienced author team combines industry knowledge with effective teaching methods to make an accessible and clear comprehensive guide to process simulation. Ideal for students, early career researchers, and practitioners, as it guides you through chemical processes and unit operations using the main simulation softwares that are used in the industrial sector. Covers the fundamentals of process simulation, theory, and advanced applications Includes case studies of various difficulty levels to practice and apply the developed skills Features step-by-step guides to using Aspen Plus and HYSYS for process simulations available on companion site Helps readers predict the characteristics of a process using mathematical models and computer-aided process simulation tools
Process plant construction estimating standards CRC Press
 Chemical Engineering Design is one of the best-known and most widely adopted texts available for students of chemical engineering. It completely covers the standard chemical engineering final year design course, and is widely used as a graduate text. The hallmarks of this renowned book have always been its scope, practical emphasis and closeness to the curriculum. That it is written by practicing chemical engineers makes it particularly popular with students who appreciate its relevance and clarity. Building on this position of strength the fifth edition covers the latest aspects of process design, operations, safety, loss prevention and equipment selection, and much more. Comprehensive in coverage, exhaustive in detail, and supported by extensive problem sets at the end of each chapter, this is a book that students will want to keep to hand as they enter their professional life. The leading chemical engineering design text with over 25 years of established market leadership to back it up; an essential resource for the compulsory design project all chemical engineering students take in their final year A complete and trusted teaching and learning package: the book offers a broader scope, better curriculum coverage, more extensive ancillaries and a more student-friendly approach, at a better price, than any of its competitors Endorsed by the Institution of Chemical Engineers, guaranteeing wide exposure to the academic

and professional market in chemical and process engineering.
SA Mining John Wiley & Sons
 A definitive encyclopedia of cost estimating manhours, material costs, equipment, indirects & subcontracts for numerous types of Process Plants & General Construction remodeling, maintenance & new construction. This easy-to-use system provides both composite unit prices as well as the detailed line item data used to arrive at those standards. The Richardson Rapid Estimating System presents a systematic takeoff procedure enabling estimates to be produced correctly, quickly & accurately. The accounts include Manhours for performing Labor, Unit Prices, & Illustrations. All the information is described so that it can be used in any locality. Includes explanations on how to use the Manhours & Unit Prices so they can be applied to unusual jobsite situations. The four volumes are updated annually & contain detailed information covering Sitework, Concrete, Masonry, Structural Steel, Carpentry, Architectural Features, HVAC Plumbing, Process Piping, Instrumentation, Electrical, & Process Equipment. With our exclusive Richardson Rapid Estimates, you get over 20,000 pre-built estimates with Unit Costs to provide estimates that can be used every day. Richardson's three volume "General Construction Estimating Standards" 1995 edition (ISBN 1-881386-18-X) presents the same information as the "Process Plant Estimating Standards" but excludes the Process Plant specific information. Other products include Seminars, Software, Databases, Foreign Location Factor Manual. For more information, write to: RICHARDSON ENGINEERING SERVICES, INC., P.O. Box 9103, Mesa, AZ 85214-9103; or call 602-497-2063.
Chemical Process Design, Simulation and Optimization MDPI
 This textbook provides an introduction to the principles and practices of chemical engineering. Designed for undergraduate students, it covers a wide range of topics including material and energy balances, thermodynamics, chemical kinetics, reactor design, and more. With numerous examples and exercises, this book is an invaluable resource for anyone seeking a solid foundation in chemical engineering. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the "public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.
A Real-time Approach to Distillation Process Control Elsevier

Master process control hands on, through practical examples and MATLAB(R) simulations This is the first complete introduction to process control that fully integrates software tools--enabling professionals and students to master critical techniques hands on, through computer simulations based on the popular MATLAB environment. Process Control: Modeling, Design, and Simulation teaches the field's most important techniques, behaviors, and control problems through practical examples, supplemented by extensive exercises--with detailed derivations, relevant software files, and additional techniques available on a companion Web site. Coverage includes: Fundamentals of process control and instrumentation, including objectives, variables, and block diagrams Methodologies for developing dynamic models of chemical processes Dynamic behavior of linear systems: state space models, transfer function-based models, and more Feedback control; proportional, integral, and derivative (PID) controllers; and closed-loop stability analysis Frequency response analysis techniques for evaluating the robustness of control systems Improving control loop performance: internal model control (IMC), automatic tuning, gain scheduling, and enhancements to improve disturbance rejection Split-range, selective, and override strategies for switching among inputs or outputs Control loop interactions and multivariable controllers An introduction to model predictive control (MPC) Bequette walks step by step through the development of control instrumentation diagrams for an entire chemical process, reviewing common control strategies for individual unit operations, then discussing strategies for integrated systems. The book also includes 16 learning modules demonstrating how to use MATLAB and SIMULINK to solve several key control problems, ranging from robustness analyses to biochemical reactors, biomedical problems to multivariable control.

CRC Handbook of Applied Thermodynamics Elsevier

Step-by-step instructions enable chemical engineers to master key software programs and solve complex problems Today, both students and professionals in chemical engineering must solve increasingly complex problems dealing with refineries, fuel cells, microreactors, and pharmaceutical plants, to name a few. With this book as their guide, readers learn to solve these problems using their computers and Excel, MATLAB, Aspen Plus, and COMSOL Multiphysics. Moreover, they learn how to check their solutions and validate their results to make sure they have solved the problems correctly. Now in its Second Edition, *Introduction to Chemical Engineering Computing* is based on the author's firsthand teaching experience. As a result, the emphasis is on problemsolving. Simple introductions help readers become conversant with each program and then tackle a broad range of problems in chemical engineering, including: Equations of state Chemical reaction equilibria Mass balances with recycle streams Thermodynamics and simulation of mass transfer equipment Process simulation Fluid flow in two and three dimensions All the chapters contain clear instructions, figures, and examples to guide readers through all the programs and types of chemical engineering problems. Problems at the end of each chapter, ranging from simple to difficult, allow readers to gradually build their skills, whether they solve the problems themselves or inteams. In addition, the book's accompanying website lists the core principles learned from each problem, both from a chemical engineering and a computational perspective. Covering a broad range of disciplines and problems within chemical engineering, *Introduction to Chemical Engineering Computing* is recommended for both undergraduate and graduate students as well as practicing engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem.

Handbook of Vegetables and Vegetable Processing John Wiley & Sons

Aspen Plus is one of the most popular process simulation software programs used industrially and academically. The book is designed to enable chemical engineers to go through a step-by-step process of learning the basic ideas underlying chemical process simulation, by studying the primary functions of the Aspen Plus software. Because of the major changes Aspen Technology has made in the user's interface in release 8.x, parts of the first edition which is based on release 7.x have become obsolete. However much of the scientific and engineering material has not changed; for example the material describing the distillation modules is completely suitable for self-study however some of the displays have changed. New chapters include Equation-Oriented Simulation, Electrolytes, and an appendix on The NIST Thermo Data Engine as a data source. Each chapter starts with the equivalent of a classroom lecture followed by workshops which provide experience in the chapter's subject matter. The downloadable files contain solutions, both in Aspen Plus and text formats, to examples imbedded in the text as well as to all the workshops. There are also notes at the end of each chapter designed to aid readers that have difficulty with the workshops.

Integrated Design and Simulation of Chemical Processes Editions TECHNIP

This book focuses on modelling issues and their implications for the correct design of reactive absorption-desorption systems. In

addition, it addresses the case of carbon dioxide (CO₂) post-combustion capture in detail. The book proposes a new perspective on these systems, and provides technological solutions with comparisons to previous treatments of the subject. The model that is proposed is subsequently validated using experimental data. In addition, the book features graphs to guide readers with immediate visualizations of the benefits of the methodology proposed. It shows a systematic procedure for the steady-state model-based design of a CO₂ post-combustion capture plant that employs reactive absorption-stripping, using monoethanolamine as the solvent. It also discusses the minimization of energy consumption, both through the modification of the plant flowsheet and the set-up of the operating parameters. The book offers a unique source of information for researchers and practitioners alike, as it also includes an economic analysis of the complete plant. Further, it will be of interest to all academics and students whose work involves reactive absorption-stripping design and the modelling of reactive absorption-stripping systems.

An Introduction To Chemical Engineering Elsevier

While various software packages have become essential for performing unit operations and other kinds of processes in chemical engineering, the fundamental theory and methods of calculation must also be understood to effectively test the validity of these packages and verify the results. *Computer Methods in Chemical Engineering, Second Edition* presents the most used simulation software along with the theory involved. It covers chemical engineering thermodynamics, fluid mechanics, material and energy balances, mass transfer operations, reactor design, and computer applications in chemical engineering. The highly anticipated Second Edition is thoroughly updated to reflect the latest updates in the featured software and has added a focus on real reactors, introduces AVEVA Process Simulation software, and includes new and updated appendixes. Through this book, students will learn the following: What chemical engineers do The functions and theoretical background of basic chemical engineering unit operations How to simulate chemical processes using software packages How to size chemical process units manually and with software How to fit experimental data How to solve linear and nonlinear algebraic equations as well as ordinary differential equations Along with exercises and references, each chapter contains a theoretical description of process units followed by numerous examples that are solved step by step via hand calculation and computer simulation using Hysys/UniSim, PRO/II, Aspen Plus, and SuperPro Designer. Adhering to the Accreditation Board for Engineering and Technology (ABET) criteria, the book gives chemical engineering students and professionals the tools to solve real problems involving thermodynamics and fluid-phase equilibria, fluid flow, material and energy balances, heat exchangers, reactor design, distillation, absorption, and liquid extraction. This new edition includes many examples simulated by recent software packages. In addition, fluid package information is introduced in correlation to the numerical problems in book. An updated solutions manual and PowerPoint slides are also provided in addition to new video guides and UniSim program files.

Scientific and Technical Aerospace Reports John Wiley & Sons

A Real-Time Approach to Distillation Process Control A practical and hands-on discussion of modern distillation control In *A Real-time Approach to Distillation Process Control*, a team of distinguished researchers and industrial practitioners delivers a practical text combining hands-on and active learning using process simulation with discussions of the fundamental knowledge and tools required to apply modern distillation control principles. The book offers a balanced, real-time approach integrated with practical insights. It includes many exercises designed to be simulator agnostic that can be performed on the process simulator locally available to the reader. Readers will discover explorations of topics including distillation control hardware, distillation composition control, refinery versus chemical plant distillation control, distillation control tuning, advanced regulatory control, and more. They'll also find: A thorough introduction to distillation fundamentals, as well as basic and advanced modern controls from a practical point of view Comprehensive explorations of known base controls combined with modern control practices Practical discussions of hands-on modelling and simulation exercises, allowing the reader to design and tune controls on a distillation column Fulsome treatments of control structure design integrated with controller tuning using a real-time approach Perfect for senior undergraduate and graduate students studying general process control or distillation process control, *A Real-time Approach to Distillation Process Control* will also benefit plant managers, production supervisors, startup supervisors, operations engineers, production engineers, and chemical engineers working in industry.

Chemical Process Simulation and the Aspen HYSYS V8. 3 Software John Wiley & Sons

32nd European Symposium on Computer Aided Process Engineering: ESCAPE-32 contains the papers presented at the 32nd European Symposium of Computer Aided Process Engineering (ESCAPE) event held in Toulouse, France. It is a

valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students and consultants for chemical industries who work in process development and design. Presents findings and discussions from the 32nd European Symposium of Computer Aided Process Engineering (ESCAPE) event

Learn Aspen Plus in 24 Hours John Wiley & Sons

The document *Chemical Process Simulation and the Aspen HYSYS v8.3 Software* is a self-paced instructional manual that aids students in learning how to use a chemical process simulator and how a process simulator models material balances, phase equilibria, and energy balances for chemical process units. The student learning is driven by the development of the material and energy requirements for a specific chemical process flowsheet. This semester-long, problem-based learning activity is intended to be a student-based independent study, with about two-hour support provided once a week by a student teaching assistant to answer any questions. Chapter 1 of this HYSYS manual provides an overview of the problem assignment to make styrene monomer from toluene and methanol. Chapter 2 presents ten tutorials to introduce the student to the HYSYS simulation software. The first six of these tutorials can be completed in a two-week period for the introductory chemical engineering course. The other four are intended for the senior-level design course. Chapter 3 provides five assignments to develop the student's abilities and confidence to simulate individual process units using HYSYS. These five assignments can be completed over a three-week period. Chapter 4 contains seven assignments to develop the styrene monomer flowsheet. These seven assignments can be completed over a seven-week period. In Chapter 4, each member of a four-, five-, or six-member team begins with the process reactor unit for a specifically-assigned temperature, molar conversion, and yield. Subsequent assignments increase the complexity of the flowsheet by adding process units, one by one, until the complete flowsheet with recycle is simulated in HYSYS. The team's objective is to determine the operating temperature for the reactor, such that the net profit is maximized before considering federal taxes. Finally, eleven appendixes provide mathematical explanations of how HYSYS does its calculations for various process units-process stream, stream tee, stream mixer, pump, valve, heater/cooler, chemical reactor, two-phase separator, three-phase separator, component splitter, and simple distillation. This HYSYS manual can be used with most textbooks for the introductory course on chemical engineering, like *Elementary Principles of Chemical Processes* (Felder and Rousseau, 2005), *Basic Principles and Calculations in Chemical Engineering* (Himmelblau and Riggs, 2004), or *Introduction to Chemical Processes: Principles, Analysis, Synthesis* (Murphy, 2007). It can also be used as a refresher for chemical engineering seniors in their process engineering design course. Because the HYSYS manuscript was compiled using Adobe Acrobat(r), it contains many web links. Using a supplied web address and Acrobat Reader(r), students can electronically access the web links that appear in many of the chapters. These web links access Aspen HYSYS(r), Acrobat PDF(r), Microsoft Word(r), and Microsoft Excel(r) files that appear in many of chapters. Students can view but not copy or print the electronic version of the HYSYS manual.

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ASPEN PLUS® Comprehensive resource covering Aspen Plus V12.1 and demonstrating how to implement the program in versatile chemical process industries Aspen Plus®: Chemical Engineering Applications facilitates the process of learning and later mastering Aspen Plus®, the market-leading chemical process modeling software, with step-by-step examples and succinct explanations. The text enables readers to identify solutions to various process engineering problems via screenshots of the Aspen Plus® platforms in parallel with the related text. To aid in information retention, the text includes end-of-chapter problems and term project problems, online exam and quiz problems for instructors that are parametrized (i.e., adjustable) so that each student will have a standalone version, and extra online material for students, such as Aspen Plus®-related files, that are used in the working tutorials throughout the entire textbook. The second edition of Aspen Plus®: Chemical Engineering Applications includes information on: Various new features that were embedded into Aspen Plus V12.1 and existing features which have been modified Aspen Custom Modeler (ACM), covering basic features to show how to merge customized models into Aspen Plus simulator New updates to process dynamics and control and process economic analysis since the first edition was published Vital areas of interest in relation to the software, such as polymerization, drug solubility, solids handling, safety measures, and energy saving For chemical engineering students and industry professionals, the second edition of Aspen Plus®: Chemical Engineering Applications is a key resource for understanding Aspen Plus and the new features that were added in version 12.1 of the software. Many supplementary learning resources help aid the reader with information retention. *Process Simulation And Control Using Aspen*" John Wiley & Sons The use of control systems is necessary for safe and optimal

operation of industrial processes in the presence of inevitable disturbances and uncertainties. Plant-wide control (PWC) involves the systems and strategies required to control an entire chemical plant consisting of many interacting unit operations. Over the past 30 years, many tools and methodologies have been developed to accommodate increasingly larger and more complex plants. This book provides a state-of-the-art of techniques for the design and evaluation of PWC systems. Various applications taken from chemical, petrochemical, biofuels and mineral processing industries are used to illustrate the use of these approaches. This book contains 20 chapters organized in the following sections:

Overview and Industrial Perspective Tools and Heuristics Methodologies Applications Emerging Topics With contributions from the leading researchers and industrial practitioners on PWC design, this book is key reading for researchers, postgraduate students, and process control engineers interested in PWC.

Chemical Engineering Design Elsevier

A comprehensive resource to the construction, use, and modification of the wide variety of adsorptive and chromatographic separations Design, Simulation and Optimization of Adsorptive and Chromatographic Separations offers the information needed to effectively design, simulate, and optimize adsorptive and chromatographic separations for a wide range of industrial applications. The authors' noted experts in the field cover the fundamental principles, the applications, and a range of modeling techniques for the processes. The text presents a unified approach that includes the ideal and intermediate equations and offers a wealth of hands-on case studies that employ the rigorous simulation packages Aspen Adsorption and Aspen Chromatography. The text reviews the effective design strategies, details design considerations, and the assumptions which the modelers are allowed to make. The authors also cover shortcut design methods as well as mathematical tools that help to determine optimal operating conditions. This important text: -Covers everything from the underlying phenomena to model optimization and the customization of model code -Includes practical tutorials that allow for independent review and study -Offers a comprehensive review of the construction, use, and modification of the wide variety of adsorptive and chromatographic separations -Contains contributions from three noted experts in the field Written for chromatographers, process engineers, chemists, and other professionals, Design, Simulation and Optimization of Adsorptive and Chromatographic Separations offers a comprehensive review of the construction, use, and modification of adsorptive and chromatographic separations.

32nd European Symposium on Computer Aided Process Engineering Hassell Street Press

A comprehensive and example oriented text for the study of

chemical process design and simulation Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software. A comprehensive and practical resource, the text uses both Aspen Plus and Aspen Hysys simulation software. The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys. The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors, separators, and heat exchangers. The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used. In addition, to aid in comprehension, solutions to examples of real problems are included. The final section covers plant design and simulation of processes using nonconventional components. This important resource: -Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems -Combines the basic theoretical principles of chemical process and design with real-world examples -Covers both processes with conventional organic chemicals and processes with more complex materials such as solids, oil blends, polymers and electrolytes -Presents examples that are solved using a new version of Aspen software, ASPEN One 9 Written for students and academics in the field of process design, Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software.

Measuring Climate Change to Inform Energy Transitions Springer Vegetables are an important article of commerce both in developed and developing economies. Many studies point to importance of vegetables in our diet. Handbook of Vegetables and Vegetable Processing serves as a reference handbook on vegetables and vegetable processing containing the latest developments and advances in this fast growing field. The book can be considered as a companion to Y. H. Hui's popular Handbook of Fruits and Fruit Processing (2006). Handbook of Vegetables and Vegetable Processing is contemporary in scope, with in-depth coverage of new interdisciplinary developments and practices in the field of vegetables emphasizing processing, preservation, packaging, and nutrition and food safety. Coverage includes chapters on the biology, horticultural biochemistry, microbiology, nutrient and bioactive properties of vegetables and their significant commercialization by the food industry worldwide. Full chapters are devoted to major vegetables describing aspects ranging from chemistry to processing and

preservation. World-renowned editors and authors have contributed to this essential handbook on vegetables and their production, technology, storage, processing, packaging, safety and commercial product development. Special Features: Coverage includes biology and classification, physiology, biochemistry, flavor and sensory properties, microbial safety and HACCP principles, nutrient and bioactive properties In-depth descriptions of key processes including, minimal processing, freezing, pasteurization and aseptic processing, fermentation, drying, packaging, and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado, table olives and textured vegetable proteins Unparalleled expertise on important topics from more than 50 respected authors
Chemical Engineering Process Simulation John Wiley & Sons This book includes papers presented at ESCAPE-10, the 10th European Symposium on Computer Aided Process -Engineering, held in Florence, Italy, 7-10th May, 2000. The scientific program reflected two complementary strategic objectives of the 'Computer Aided Process Engineering' (CAPE) Working Party: one checked the status of historically consolidated topics by means of their industrial application and their emerging issues, while the other was addressed to opening new windows to the CAPE audience by inviting adjacent Working Parties to co-operate in the creation of the technical program. The former CAPE strategic objective was covered by the topics: Numerical Methods, Process Design and Synthesis, Dynamics & Control, Process Modeling, Simulation and Optimization. The latter CAPE strategic objective derived from the European Federation of Chemical Engineering (EFCE) promotion of scientific activities which autonomously and transversely work across the Working Parties' terms of references. These activities enhance the exchange of the know-how and knowledge acquired by different Working Parties in homologous fields. They also aim to discover complementary facets useful to the dissemination of tools and of novel procedures. As a consequence, the Working Parties 'Environmental Protection', 'Loss Prevention and Safety Promotion' and 'Multiphase Fluid Flow' were invited to assist in the organization of sessions in the area of: A Process Integrated Approach for: Environmental Benefit, Loss Prevention and Safety, Computational Fluid Dynamics. A total of 473 abstracts from all over the world were evaluated by the International Scientific Committee. Out of them 197 have been finally selected for the presentation and reported into this book. Their authors come from thirty different countries. The selection of the papers was carried out by twenty-eight international reviewers. These proceedings will be a major reference document to the scientific and industrial community and will contribute to the progress in Computer Aided Process Engineering.

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