

Chemical Process And Design Handbook

John J. McKetta Jr

Chemical Process and Design Handbook James G. Speight, 2002 Control chemical processes to get the results you want Invaluable to chemical and environmental engineers as well as process designers, Chemical Process and Design Handbook shows you how to control chemical processes to yield desired effects efficiently and economically. The book examines each of the major chemical processes, such as reactions, separations, mixing, heating, cooling, pressure change, and particle size reduction and enlargement -- in logically arranged alphabetical chapters, providing you with an understanding of the essential qualitative analysis of each. The Handbook, from expert James Speight: Emphasizes chemical conversions -- chemical reactions applied to industrial processing Provides easy-to-understand descriptions to explain reactor type and design Describes the latest process developments and possible future improvements or changes

Chemical Process Design and Integration Robin Smith, 2016-08-02 Written by a highly regarded author with industrial and academic experience, this new edition of an established bestselling book provides practical guidance for students, researchers, and those in chemical engineering. The book includes a new section on sustainable energy, with sections on carbon capture and sequestration, as a result of increasing environmental awareness; and a companion website that includes problems, worked solutions, and Excel spreadsheets to enable students to carry out complex calculations.

Chemical Process and Design Handbook James G. Speight,

Chemical Processing Handbook John J. McKetta Jr, 1993-04-30 Written by more than 40 world renowned authorities in the field, this reference presents information on plant design, significant chemical reactions, and processing operations in industrial use - offering shortcut calculation methods wherever possible.

Chemical Process Equipment James R. Couper, W Roy Penney, James R. Fair, Stanley M. Walas, 2005-01-20

Comprehensive and practical guide to the selection and design of a wide range of chemical process equipment. Emphasis is placed on real-world process design and performance of equipment. Provides examples of successful applications, with numerous drawings, graphs, and tables to show the functioning and performance of the equipment. Equipment rating forms and manufacturers' questionnaires are collected to illustrate the data essential to process design. Includes a chapter on equipment cost and addresses economic concerns. - Practical guide to the selection and design of a wide range of chemical process equipment. Examples of successful, real-world applications are provided - Fully revised and updated with valuable

shortcut methods, rules of thumb, and equipment rating forms and manufacturers' questionnaires have been collected to demonstrate the design process. Many line drawings, graphs, and tables illustrate performance data - Chapter 19 has been expanded to cover new information on membrane separation. Approximately 100 worked examples are included. End of chapter references also are provided

AIChE DIPPR Chemical Properties Data Prediction Manual Ronald P. Danner, Design Institute for Physical Property Data, 1982

Petroleum Processing Handbook John J. McKetta Jr, 1992-04-30 A reference that details the pertinent chemical reactions and emphasizes the plant design and operations of petroleum processing procedures. The handbook is divided into four sections: products, refining, manufacturing processes, and treating processes. Wherever possible, shortcut methods of calculation

Petroleum Refining Design and Applications Handbook, Volume 3 A. Kayode Coker, 2022-06-21 PETROLEUM REFINING The third volume of a multi-volume set of the most comprehensive and up-to-date coverage of the advances of petroleum refining designs and applications, written by one of the world's most well-known process engineers, this is a must-have for any chemical, process, or petroleum engineer. This volume continues the most up-to-date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state-of-the-art to the engineer, scientist, or student. This book provides the design of process equipment, such as vessels for the separation of two-phase and three-phase fluids, using Excel spreadsheets, and extensive process safety investigations of refinery incidents, distillation, distillation sequencing, and dividing wall columns. It also covers multicomponent distillation, packed towers, liquid-liquid extraction using UniSim design software, and process safety incidents involving these equipment items and pertinent industrial case studies. Useful as a textbook, this is also an excellent, handy go-to reference for the veteran engineer, a volume no chemical or process engineering library should be without. Written by one of the world's foremost authorities, this book sets the standard for the industry and is an integral part of the petroleum refining renaissance. It is truly a must-have for any practicing engineer or student in this area. This groundbreaking new volume: Assists engineers in rapidly analyzing problems and finding effective design methods and select mechanical specifications Provides improved design manuals to methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day-to-day petroleum refining operations topics with new materials on significant industry changes Includes extensive Excel spreadsheets for the design of process vessels for mechanical separation of two-phase and three-phase fluids Provides UniSim ®-based case studies for enabling simulation of key processes outlined in the book Helps achieve optimum operations and process conditions and shows how to translate design fundamentals into mechanical equipment specifications Has a related website that includes computer applications along with spreadsheets and concise applied process design flow charts and process data

sheets Provides various case studies of process safety incidents in refineries and means of mitigating these from investigations by the US Chemical Safety Board Includes a vast Glossary of Petroleum and Technical Terminology

Handbook for Chemical Process Industries Himanshu J Patel, 2023-10-06 Chemical processing industry plays a pivotal role in the economy of a country, as chemicals are required in every sphere of our lives. This book covers chemical processing of dyes, pigments, drugs and pharmaceutical products, fermented products, agrochemicals, explosives, polymers, Period II and III chemicals, chemicals, sugar, coatings, starches, soaps and detergents, paper, pulp, glass, and cement. It includes sources of natural materials, collection process, purification, and extraction of different chemicals from natural materials like petroleum, coal and ores from the Earth. It includes manufacturing details of C1 to C4 and aromatic compounds obtained from natural materials. The book covers both traditional and modern sectors of the chemical processing industry. It provides knowledge on the properties of the chemical and manufacturing process (such as raw materials, chemical reactions, quantitative requirement, flow sheet diagram, procedure) and its uses. The book is based on the author's expertise and has been developed with an awareness of the quantitative requirement for manufacturing chemicals. Data has been collected from industry, thus it will be useful to industry personnel, research groups, academicians and institutional organizations.

Lees' Loss Prevention in the Process Industries Frank Lees, 2005-01-10 Over the last three decades the process industries have grown very rapidly, with corresponding increases in the quantities of hazardous materials in process, storage or transport. Plants have become larger and are often situated in or close to densely populated areas. Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough, Bhopal, Chernobyl, Three Mile Island, the Phillips 66 incident, and Piper Alpha to name but a few. The field of Loss Prevention is, and continues to, be of supreme importance to countless companies, municipalities and governments around the world, because of the trend for processing plants to become larger and often be situated in or close to densely populated areas, thus increasing the hazard of loss of life or property. This book is a detailed guidebook to defending against these, and many other, hazards. It could without exaggeration be referred to as the bible for the process industries. This is THE standard reference work for chemical and process engineering safety professionals. For years, it has been the most complete collection of information on the theory, practice, design elements, equipment, regulations and laws covering the field of process safety. An entire library of alternative books (and cross-referencing systems) would be needed to replace or improve upon it, but everything of importance to safety professionals, engineers and managers can be found in this all-encompassing reference instead. Frank Lees' world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world's chief experts in this field. Sam Mannan is professor of chemical engineering at Texas A&M University, and heads the Mary Kay O'Connor Process Safety Center at Texas A&M. He received

his MS and Ph.D. in chemical engineering from the University of Oklahoma, and joined the chemical engineering department at Texas A&M University as a professor in 1997. He has over 20 years of experience as an engineer, working both in industry and academia. New detail is added to chapters on fire safety, engineering, explosion hazards, analysis and suppression, and new appendices feature more recent disasters. The many thousands of references have been updated along with standards and codes of practice issued by authorities in the US, UK/Europe and internationally. In addition to all this, more regulatory relevance and case studies have been included in this edition. Written in a clear and concise style, Loss Prevention in the Process Industries covers traditional areas of personal safety as well as the more technological aspects and thus provides balanced and in-depth coverage of the whole field of safety and loss prevention. * A must-have standard reference for chemical and process engineering safety professionals * The most complete collection of information on the theory, practice, design elements, equipment and laws that pertain to process safety * Only single work to provide everything; principles, practice, codes, standards, data and references needed by those practicing in the field

Systematic Methods of Chemical Process Design Lorenz T. Biegler, Ignacio E. Grossmann, Arthur W.

Westerberg, 1997 Over the last 20 years, fundamental design concepts and advanced computer modeling have revolutionized process design for chemical engineering. Team work and creative problem solving are still the building blocks of successful design, but new design concepts and novel mathematical programming models based on computer-based tools have taken out much of the guess-work. This book presents the new revolutionary knowledge, taking a systematic approach to design at all levels.

Chemical Process Equipment - Selection and Design (Revised 2nd Edition) James R. Couper, W Roy Penney, James R. Fair PhD, 2009-08-11 A facility is only as efficient and profitable as the equipment that is in it: this highly influential book is a powerful resource for chemical, process, or plant engineers who need to select, design or configure plant successfully and profitably. It includes updated information on design methods for all standard equipment, with an emphasis on real-world process design and performance. - The comprehensive and influential guide to the selection and design of a wide range of chemical process equipment, used by engineers globally; Copious examples of successful applications, with supporting schematics and data to illustrate the functioning and performance of equipment - Revised edition, new material includes updated equipment cost data, liquid-solid and solid systems, and the latest information on membrane separation technology - Provides equipment rating forms and manufacturers' data, worked examples, valuable shortcut methods, rules of thumb, and equipment rating forms to demonstrate and support the design process - Heavily illustrated with many line drawings and schematics to aid understanding, graphs and tables to illustrate performance data

Handbook of Industrial Hydrocarbon Processes James G. Speight, 2019-11-21 Handbook of Industrial Hydrocarbon Processes, Second Edition, provides an analysis of the process steps required to produce hydrocarbons from various raw

materials and how the choice of a process depends not only on technology, but also on external effects, such as social and economic developments, political factors affecting the availability of raw materials, and environmental legislation. This book qualitatively examines chemical processes and plant design by showing the factors determining process structures, including the underlying chemistry, feedstock, product specifications and reactor design. The book also compares the processes for different products based on raw materials and manufacturing processes based on their respective applications. With the addition of useful flowcharts that present an overview of the chemical processes, process design and equipment, this book is a valuable resource to industry professionals on how to understand how hydrocarbons are produced from different raw materials and how to develop an instinct for the right process development strategy. - Provides a qualitative analysis of chemical processes and plant design by showing the factors determining process structures - Presents chemical processes in an organized, easy-to-read and understandable manner with the use of useful flowcharts and concise descriptions - Includes updates on changes in existing technological and chemical processes, as well as possible future improvements or changes to other more economic or more readily available feedstocks

Unit Operations Handbook John J. McKetta Jr, 2018-12-12 Emphasizes the design, control and functioning of various unit operations - offering shortcut methods of calculation along with computer and nomographic solution techniques. Provides practical sections on conversion to and from SI units and cost indexes for quick updating of all cost information.; This book is designed for mechanical, chemical, process design, project, and materials engineers and continuing-education courses in these disciplines.

Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2014-11-29 The fourth edition of Ludwig's Applied Process Design for Chemical and Petrochemical Plants, Volume Three is a core reference for chemical, plant, and process engineers and provides an unrivalled reference on methods, process fundamentals, and supporting design data. New to this edition are expanded chapters on heat transfer plus additional chapters focused on the design of shell and tube heat exchangers, double pipe heat exchangers and air coolers. Heat tracer requirements for pipelines and heat loss from insulated pipelines are covered in this new edition, along with batch heating and cooling of process fluids, process integration, and industrial reactors. The book also looks at the troubleshooting of process equipment and corrosion and metallurgy. - Assists engineers in rapidly analyzing problems and finding effective design methods and mechanical specifications - Definitive guide to the selection and design of various equipment types, including heat exchanger sizing and compressor sizing, with established design codes - Batch heating and cooling of process fluids supported by Excel programs

Petroleum Refining Design and Applications Handbook, Volume 4 A. Kayode Coker, 2023-02-01 PETROLEUM REFINING This fourth volume in the Petroleum Refining set, this book continues the most up-to-date and comprehensive

coverage of the most significant and recent changes to petroleum refining, presenting the state-of-the-art to the engineer, scientist, or student. This book provides the design of heat exchanger equipment, crude oil fouling in pre-heat train exchangers, crude oil fouling models, fouling mitigation and monitoring, prevention and control of liquid and gas side fouling, using the Excel spreadsheet and UniSim design software for the design of shell and tube heat exchangers, double pipe heat exchangers, air-cooled exchangers, heat loss tracing for process piping, pinch analysis for hot and cold utility targets and process safety incidents involving these equipment items and pertinent industrial case studies. Use of UniSim Design (UniSim STE) software is illustrated in further elucidation of the design of shell and tube heat exchangers, condensers, and UniSim ExchangerNet R470 for the design of heat exchanger networks using pinch analysis. This is important for determining minimum cold and hot utility requirements, composite curves of hot and cold streams, the grand composite curve, the heat exchanger network, and the relationship between operating cost index target and the capital cost index target against ΔT_{min} . Useful as a textbook, this is also an excellent, handy go-to reference for the veteran engineer, a volume no chemical or process engineering library should be without. Written by one of the world's foremost authorities, this book sets the standard for the industry and is an integral part of the petroleum refining renaissance. It is truly a must-have for any practicing engineer or student in this area. This groundbreaking new volume: Assists engineers in rapidly analyzing problems and finding effective design methods and select mechanical specifications Provides improved design manuals to methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day-to-day petroleum refining operations topics with new materials on significant industry changes Extensive Excel spreadsheets for the design of process vessels for mechanical separation of two-phase and three-phase fluids, double-pipe heat exchanger, air-cooled exchanger, pinch analysis for hot and cold utility targets. Provides UniSim ®-based case studies for enabling simulation of key processes outlined in the book Helps achieve optimum operations and process conditions and shows how to translate design fundamentals into mechanical equipment specifications Has a related website that includes computer applications along with spreadsheets and concise applied process design flow charts and process data sheets Provides various case studies of process safety incidents in refineries and means of mitigating these from investigations by the US Chemical Safety Board Includes a vast Glossary of Petroleum and Technical Terminology

Petroleum Refining Design and Applications Handbook, Volume 2 A. Kayode Coker, 2021-03-09 A must-read for any practicing engineer or student in this area There is a renaissance that is occurring in chemical and process engineering, and it is crucial for today's scientists, engineers, technicians, and operators to stay current. This book offers the most up-to-date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state-of-the-art to the engineer, scientist, or student. Useful as a textbook, this is also an excellent, handy go-to reference for the veteran engineer, a volume no chemical or process engineering library should be without.

Petroleum Refining Design and Applications Handbook, Volume 5 A. Kayode Coker, 2023-06-22 PETROLEUM REFINING With no new refineries having been built in decades, companies continue to build onto or reverse engineer and re-tool existing refineries. With so many changes in the last few years alone, books like this are very much in need. There is truly a renaissance for chemical and process engineering going on right now across multiple industries. This fifth and final volume in the “Petroleum Refining Design and Applications Handbook” set, this book continues the most up-to-date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state-of-the-art to the engineer, scientist, or student. Besides the list below, this groundbreaking new volume describes blending of products from the refinery, applying the ternary diagrams and classifications of crude oils, flash point blending, pour point blending, aniline point blending, smoke point and viscosity blending, cetane and diesel indices. The volume further reviews refinery operational cost, cost allocation of actual usage, project and economic evaluation involving cost estimation, cash flow involving return on investment, net present values, discounted cash flow rate of return, net present values, payback period, inflation and sensitivity analysis, and so on. It reviews global effects on the refining economy, carbon tax, carbon foot print, global warming potential, carbon dioxide equivalent, carbon credit, carbon offset, carbon price, and so on. It reviews sustainability in petroleum refining and alternative fuels (biofuels and so on), impact of the overall greenhouse effects, carbon capture and storage in refineries, process intensification in biodiesel, biofuel from green diesel, acid-gas removal and emerging technologies, carbon capture and storage, gas heated reformer unit, pressure swing adsorption process, steam methane reforming for fuel cells, grey, blue and green hydrogen production, new technologies for carbon capture and storage, carbon clean process design, refinery of the future, refining and petrochemical industry characteristics. The text is packed with Excel spreadsheet calculations and Honeywell UniSim Design software in some examples, and it includes an invaluable glossary of petroleum and petrochemical technical terminologies. Useful as a textbook, this is also an excellent, handy go-to reference for the veteran engineer, a volume no chemical or process engineering library should be without. Written by one of the world’s foremost authorities, this book sets the standard for the industry and is an integral part of the petroleum refining renaissance. It is truly a must-have for any practicing engineer or student in this area.

An Introduction to Chemical Process Design - free sample chapter Bart Hallmark, 2021-10-21 This is a free sample chapter from a short book on chemical process design. The book derives from a course on chemical process design that I taught at the University of Cambridge, UK, between 2008 and 2018 and is intended to serve as a basic introduction to a number of disciplines within the topic. Given the immense breadth and depth of this subject, the aim of this book is to introduce and illustrate certain key points and concepts and to provide a template ‘workflow’ for certain procedures such as gaseous relief header design or distillation optimisation. Reference is made to specialist design manuals for specific topics such that more information can be obtained by the reader where necessary. The aim of this book is not to provide a definitive

reference for all design scenarios but rather to act as an introductory guide! The book was originally written for undergraduate students embarking on their design project, but it is also intended to serve as a succinct reference guide to existing practitioners.

Chemical Engineering Design Gavin Towler, Ray Sinnott, 2007-11-26 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 one of the best-known and widely adopted texts available for students of chemical engineering. It deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this US edition has been specifically developed for the US market. It covers the latest aspects of process design, operations, safety, loss prevention and equipment selection, among others. Comprehensive in coverage, exhaustive in detail, it is supported by extensive problems and a separate solutions manual for adopting tutors and lecturers. In addition, the book is widely used by professions as a day-to-day reference. - 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

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