

Chemical Process Industries Austin G Tshreve Fifth Edition

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Water Treatment for Industrial and Other Uses - Eskel Nordell 1951

Tires as a Fuel Supplement - California Integrated Waste Management Board 1992

Chemical Process Industries - Randolph Norris Shreve 1977

Chemistry for Engineers (M.D.U. Rohtak) - Dr. B. K. Ambasta 2010

Amassing Power - David Massell 2000-07-13

The damming of the Saguenay brought industrialisation on a grand scale to rural Quebec in the form of newsprint and aluminum manufacture. Tapping into rich and diverse sources in Canada, the United States, and Europe, Massell provides an interdisciplinary, cross-border study of American capital and Canadian resources. He shows us how ever-larger amounts of capital yielded increasingly massive and sophisticated applications of hydroelectric technology. Grand industrial plans, in turn, encroached upon provincial water rights and farmers' lands, which drew the attention of the state. He examines the protracted power struggle between public and private interests - between American capitalists and the nascent bureaucracy of the province of Quebec - and describes the origins and evolution of the events that led to state control over hydraulic resources in the province. In doing so he provides vivid portraits of Duke and of Quebec politicians of the period and gives a dramatic account of the protracted battle of wits between Duke's chief engineer, William States Lee, and Quebec's chief of Hydraulic Service, Arthur Amos. Amassing Power speaks to the integration of North American economies, vividly illustrating the process by which American capital drew Canada's resource-rich North into the economic orbit of the United States.

Unit Processes in Organic Synthesis - Philip Herkimer Groggins 1958

Survey of Industrial Chemistry - Philip J. Chenier 2012-12-06

Survey of Industrial Chemistry arose from a need for a basic text dealing with industrial chemistry for use in a one semester, three-credit senior level course taught at the University of Wisconsin-Eau Claire. This edition covers all important areas of the chemical industry, yet it is reasonable that it can be covered in 40 hours of lecture. Also an excellent resource and reference for persons working in the chemical and related industries, it has sections on all important technologies used by these industries: a one-step source to answer most questions on practical, applied chemistry. Young scientists and engineers just entering the workforce will find it especially useful as a readily available handbook to prepare them for a type of chemistry quite different than they have seen in their traditional coursework, whether graduate or undergraduate.

Chemical Engineering: Solutions to the Problems in Volume 1 - J R Backhurst 2013-10-22

This volume in the Coulson and Richardson series in chemical engineering contains full worked solutions to the problems posed in volume 1. Whilst the main volume contains illustrative worked examples throughout the text, this book contains answers to the more challenging questions posed at the end of each chapter of the main text. These questions are of both a standard and non-standard nature, and so will prove to be of

interest to both academic staff teaching courses in this area and to the keen student. Chemical engineers in industry who are looking for a standard solution to a real-life problem will also find the book of considerable interest. * An invaluable source of information for the student studying the material contained in Chemical Engineering Volume 1 * A helpful method of learning - answers are explained in full Innovation in the Indian Power Sector, Technologies and Approaches - 1991

Advances in Hydrogen Energy - American Chemical Society 2000-07-31

In the future, our energy systems will need to be renewable and sustainable, efficient and cost-effective, convenient and safe. Hydrogen has been proposed as the perfect fuel for this future energy system. The availability of a reliable and cost-effective supply, safe and efficient storage, and convenient end use of hydrogen will be essential for a transition to a Hydrogen Economy. Research is being conducted throughout the world for the development of safe, cost-effective hydrogen production, storage, and end-use technologies that support and foster this transition. This book is a collection of important research and analysis papers on hydrogen production, storage, and end-use technologies that were presented at the American Chemical Society National Meeting in New Orleans, Louisiana, USA, in August 1999.

Scientific and Technical Books in Print - 1972

Textbook of Nanoscience and Nanotechnology - B.S. Murty 2013-12-06

This book is meant to serve as a textbook for beginners in the field of nanoscience and nanotechnology. It can also be used as additional reading in this multifaceted area. It covers the entire spectrum of nanoscience and technology: introduction, terminology, historical perspectives of this domain of science, unique and widely differing properties, advances in the various synthesis, consolidation and characterization techniques, applications of nanoscience and technology and emerging materials and technologies.

Instrumentation for Process Measurement and Control, Third Editon - Norman A. Anderson 1997-10-22

The perennially bestselling third edition of Norman A. Anderson's Instrumentation for Process Measurement and Control provides an outstanding and practical reference for both students and practitioners. It introduces the fields of process measurement and feedback control and bridges the gap between basic technology and more sophisticated systems. Keeping mathematics to a minimum, the material meets the needs of the instrumentation engineer or technician who must learn how equipment operates. I t covers pneumatic and electronic control systems, actuators and valves, control loop adjustment, combination control systems, and process computers and simulation

Fluid Mechanics, Heat Transfer, and Mass Transfer - K. S. Raju 2011-04-20

This broad-based book covers the three major areas of Chemical Engineering. Most of the books in the market involve one of the individual areas, namely, Fluid Mechanics, Heat Transfer or Mass Transfer, rather than all the three. This book presents this material in a single source. This avoids the user having to refer to a number of books to obtain information. Most published books covering all the three areas in a single source emphasize theory rather than practical issues. This book is written with emphasis on practice with brief theoretical concepts in the form of questions and answers, not adopting stereo-typed question-

answer approach practiced in certain books in the market, bridging the two areas of theory and practice with respect to the core areas of chemical engineering. Most parts of the book are easily understandable by those who are not experts in the field. Fluid Mechanics chapters include basics on non-Newtonian systems which, for instance find importance in polymer and food processing, flow through piping, flow measurement, pumps, mixing technology and fluidization and two phase flow. For example it covers types of pumps and valves, membranes and areas of their use, different equipment commonly used in chemical industry and their merits and drawbacks. Heat Transfer chapters cover the basics involved in conduction, convection and radiation, with emphasis on insulation, heat exchangers, evaporators, condensers, reboilers and fired heaters. Design methods, performance, operational issues and maintenance problems are highlighted. Topics such as heat pipes, heat pumps, heat tracing, steam traps, refrigeration, cooling of electronic devices, NOx control find place in the book. Mass transfer chapters cover basics such as diffusion, theories, analogies, mass transfer coefficients and mass transfer with chemical reaction, equipment such as tray and packed columns, column internals including structural packings, design, operational and installation issues, drums and separators are discussed in good detail. Absorption, distillation, extraction and leaching with applications and design methods, including emerging practices involving Divided Wall and Petluk column arrangements, multicomponent separations, supercritical solvent extraction find place in the book.

The Complete Technology Book on Chemical Industries - NIIR Board 2003-08-03

In modern age chemical industries have permeated most extensively in comparison with other industries and are progressing at a very rapid pace. Chemical Industry in India is one of the fastest growing industries under the Indian economy. The chemical industry comprises the companies that produce industrial chemicals. Central to the modern world economy, it converts raw materials into more than 70,000 different products. Chemicals have contributed in various sectors like food industry, fertilizers, perfumery, fragrance and flavour etc. Chemicals are used to make a wide variety of consumer goods, as well as thousands inputs to agriculture, manufacturing, construction, and service industries. There are numerous chemicals produced in chemical industry for example chloroform, caffeine, fertilizers, dyes, drug intermediates, herbicide, inorganic salts, copper sulphate, acetaldehyde etc. The chemical industry itself consumes 26 percent of its own output. The Chemical Industry in India is based on the idea of diversification. For example inorganic chemicals is the sector where the growth rate is near about 9% and the chemicals produced in this sector are mainly used in alkalis, fertilizers, etc. Depending on the product categories the chemical industry is divided in many other sectors like drugs and pharmaceuticals, fertilizers, fine chemicals like dyes and paints etc. The chemical industry in India which generates almost 13% of total national export is growing annually at a growth rate anywhere between 10% and 12%. This book majorly deals with the molecular formula, raw materials, properties, laboratory testing, manufacturing process explained with flow diagrams and uses of the chemicals. The major contents of the book are inorganic salts, inorganic chemicals, industrial gas, fertilizers, alum, caffeine, ceramic chemicals etc. This book covers the production of more than 100 chemicals for example acetanilide, methylamine, butylamine, linalol, phosphorous, salicylic acid etc. This book should be of great value to young chemical engineers and chemists who are just entering the field but those already practicing will find much of interest and use for broadening of their insight in to fields in which they are only marginally informed. It is hoped that this book will aid to young engineers, chemical, civil, mechanical and electrical as well as chemists, in understanding the value of chemical, the type of problems met in their production and method for solving these problems. TAGS Chemical Manufacturing, Chemical Industry, Chemical Processing, Chemical Process Industry, Chemical Production Process, Manufacturing Chemicals, Chemicals Manufacture, Manufacture of Chemicals, Chemical Processing Plants, Chemical Manufacturing Process, Process and Chemical Industries, Chemical Production, Manufacture and Uses of Chemicals, Chemical Plants, Products for Chemical Processing Industry, Chemicals Manufacturing Industries in India, Chemical Manufacturing Plants, Chemical Manufacturing & Processing, Chemical Plants & Equipment, Chemical Manufacture Business Plan, Small Scale Chemical Business Ideas & Opportunities, Startup Guide for Chemical Manufacturing Business, Profitable Chemical Business Ideas, Chemical Business Ideas, Production Chemical Business Plan, How to Start Chemical Trading Business, Chemical Business Ideas in India, How to Start Chemical

Business, Investment Opportunities in Chemical Industry, Opportunities in Chemical Business, How to Start Chemical Trading Business in India, Chemical Business Opportunities, Startup Guide for Chemical Manufacturing Business, Small Chemical Business Ideas, Starting Chemical Business, How to Start Your Own Chemical Business, Chemical Manufacturing Business Ideas, Chemical Manufacturing Plants, Chemical Plant In India, 2-Chloro-6(Trichloromethyl)-Pyridine Manufacturing Process, Alkylamines Manufacturing Process, Process of Alum Plant, Alum Manufacturing Plant, Alum Production Plant, Bleaching Powder Production, Manufacturing of Bleaching Powder, Small-Scale Manufacture of Bleaching Powder, Process for Production of Bleaching Powder, How to Make Bleaching Powder, Bleaching Powder Manufacturing Plant, Ceramic Chemicals Manufacturing Process, Manufacture of Chloroform, Process for Making Chloroform, Chloroform Manufacturing Plant, Process for Manufacture of Chloramphenicol, Production of Chloramphenicol, Process for Manufacture of Coumarin, Manufacture of Coumarin, Construction Material Manufacturing Process, Material And Manufacturing Process Produces Corrosion Inhibitor, Corrosion Inhibition Chemicals Manufacture, Corrosion Inhibitors Industry, Drug Intermediates & Pharmaceuticals, Manufacturing Process of Drug Intermediates & Pharmaceuticals, Dry Cleaning Solvent, Manufacturing Process of Dyes and Intermediates, H-Acid Manufacturing Process, Manufacturing Process of Rhodamine B (Basic Dye), Manufacture of Fatty Acids, Manufacturing Process of Herbicide, Industrial Halogens Manufacture, Manufacturing Process of Inorganic Chemicals, Inorganic Salts Manufacture, Metallic Stearates Manufacture, Manufacturing Process of Metal Treatment and Degreasing Chemicals, Trichloroethylene Manufacture, Manufacturing Process of Acetaldehyde, Ethylene Dichloride Manufacture, Glycerine Manufacture, Perfumery, Fragrance and Flavour, Manufacturing Process of Phenylacetic Acid, Plasticiser Manufacture, Manufacturing Process of Diamyl Phthalates, Manufacturing Process of Tricresyl Phosphate, Rubber & Rubber Chemicals Manufacturing, Manufacture of Sulfuric Acid, Manufacturing Process of Zinc Sulphate, NPCS, Niir, Process Technology Books, Business Consultancy, Business Consultant, Project Identification and Selection, Preparation of Project Profiles, Startup, Business Guidance, Business Guidance to Clients, Startup Project, Startup Ideas, Project for Startups, Startup Project Plan, Business Start-Up, Business Plan for Startup Business, Great Opportunity for Startup, Small Start-Up Business Project, Best Small and Cottage Scale Industries, Startup India, Stand Up India, Small Scale Industries, New Small Scale Ideas for Industrial Halogens Processing Industry, Chemical Manufacturing Business Ideas You Can Start on Your Own, Indian Glycerine Processing Industry, Small Scale Inorganic Chemicals Processing, Guide to Starting and Operating Small Business, Business Ideas for Alum Manufacturing, How to Start Chemical Manufacturing Business, Starting Rubber Chemicals Manufacturing, Start Your Own Chloroform Manufacturing Business, Corrosion Inhibition Chemicals Production Business Plan, Business Plan for Bleaching Powder Production, Small Scale Industries in India, Chemical Manufacturing Based Small Business Ideas in India, Small Scale Industry You Can Start on Your Own, Business Plan for Small Scale Industries, Set Up Chemical Processing, Profitable Small Scale Manufacturing, How to Start Small Business in India, Free Manufacturing Business Plans, Small and Medium Scale Manufacturing, Profitable Small Business Industries Ideas, Business Ideas for Startup *Chemical Process Equipment* - Ka Ng 2001-11

Stoichiometry - B. I. Bhatt 2010

The Philosophy and Psychology of Ambivalence - Berit Brogaard 2020-12-23

This book collects original essays by top scholars that address questions about the nature, origins, and effects of ambivalence. While the nature of agency has received an enormous amount of attention, relatively little has been written about ambivalence or how it relates to topics such as agency, rationality, justification, knowledge, autonomy, self-governance, well-being, social cognition, and various other topics. Ambivalence presents unique questions related to many major philosophical debates. For example, it relates to debates about virtues, rationality, and decision-making, agency or authenticity, emotions, and social or political metacognition. It is also relevant to a variety of larger debates in philosophy and psychology, including nature vs. nurture, objectivity vs. subjectivity, or nomothetic vs. idiographic. The essays in this book offer novel and wide-ranging perspectives on this emerging philosophical topic. They

will be of interest to researchers and advanced students working in ethics, epistemology, philosophy of mind, philosophy of psychology, and social cognition.

Handbook of Petroleum Refining - James G. Speight 2016-10-26

Petroleum refining involves refining crude petroleum as well as producing raw materials for the petrochemical industry. This book covers current refinery processes and process-types that are likely to come on-stream during the next three to five decades. The book includes (1) comparisons of conventional feedstocks with heavy oil, tar sand bitumen, and bio-feedstocks; (2) properties and refinability of the various feedstocks; (3) thermal processes versus hydroprocesses; and (4) the influence of refining on the environment.

Infrared Methodology and Technology - Maldaque 1994-09-09

Infrared (IR) thermography is a relatively new approach to nondestructive testing that uses invisible thermal radiation to detect changes in material properties. This monograph is a collection of perspectives on the subject from industries, institutes, and universities in seven countries. The first part explores IR fundamentals, including the theory and common instrumentation behind the use of the technique. The majority of the volume is devoted to IR applications in a wide variety of fields, including construction, electronics, nuclear power, aerospace, and medicine. Includes a section of color plates and a bibliographical survey of the field. Annotation copyright by Book News, Inc., Portland, OR

Vital and Health Statistics - 1964

Real-world Cases in Green Chemistry - Michael C. Cann 2000

Lessons in Industrial Instrumentation 3/3 - Tony R. Kuphaldt 2017-05-18

This is a textbook designed to be used in any 2-year program of instruction for instrument technicians. Content: Mathematics Physics Chemistry DC Electricity AC Electricity Introduction to Industrial Instrumentation Instrumentation Documents Instrument Connections Discrete Process Measurement Discrete Control Elements Relay Control Systems Programmable Logic Controllers Analog Electronic Instrumentation Pneumatic Instrumentation Digital Data Acquisition and Networks FOUNDATION Fieldbus Instrumentation Instrument Calibration Continuous Pressure Measurement Continuous Level Measurement Continuous Temperature Measurement Continuous Fluid flow Measurement Continuous Analytical Measurement Machine Vibration Measurement Signal Characterization Final Control Elements Principles of Feedback Control Process Dynamics and PID Controller Tuning Basic Process Control Strategies Process Safety and Instrumentation Instrument System Problem Solving Note: As the total page count of this textbook is >3000 pages, it is split into three separate physical book that belong together.

Exoplanetary Atmospheres - Kevin Heng 2017-01-10

An essential introduction to the theory of exoplanetary atmospheres The study of exoplanetary atmospheres—that is, of planets orbiting stars beyond our solar system—may be our best hope for discovering life elsewhere in the universe. This dynamic, interdisciplinary field requires practitioners to apply knowledge from atmospheric and climate science, astronomy and astrophysics, chemistry, geology and geophysics, planetary science, and even biology. Exoplanetary Atmospheres provides an essential introduction to the theoretical foundations of this cutting-edge new science. Exoplanetary Atmospheres covers the physics of radiation, fluid dynamics, atmospheric chemistry, and atmospheric escape. It draws on simple analytical models to aid learning, and features a wealth of problem sets, some of which are open-ended. This authoritative and accessible graduate textbook uses a coherent and self-consistent set of notation and definitions throughout, and also includes appendixes containing useful formulae in thermodynamics and vector calculus as well as selected Python scripts. Exoplanetary Atmospheres prepares PhD students for research careers in the field, and is ideal for self-study as well as for use in a course setting. The first graduate textbook on the theory of exoplanetary atmospheres Unifies knowledge from atmospheric and climate science, astronomy and astrophysics, chemistry, planetary science, and more Covers radiative transfer, fluid dynamics, atmospheric chemistry, and atmospheric escape Provides simple analytical models and a wealth of problem sets Includes appendixes on thermodynamics, vector calculus, tabulated Gibbs free energies, and Python scripts Solutions manual (available only to professors)

1001 Motivational Quotes for Success - 2011

Handbook of Industrial Chemistry and Biotechnology - James A. Kent 2013-01-13

Substantially revising and updating the classic reference in the field, this handbook offers a valuable overview and myriad details on current chemical processes, products, and practices. No other source offers as much data on the chemistry, engineering, economics, and infrastructure of the industry. The Handbook serves a spectrum of individuals, from those who are directly involved in the chemical industry to others in related industries and activities. It provides not only the underlying science and technology for important industry sectors, but also broad coverage of critical supporting topics. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry (specifically, biomass conversion), Practical Catalysis, and Environmental Measurements; as well as expanded treatment of Safety, chemistry plant security, and Emergency Preparedness. Understanding these factors allows them to be part of the total process and helps achieve optimum results in, for example, process development, review, and modification. Important topics in the energy field, namely nuclear, coal, natural gas, and petroleum, are covered in individual chapters. Other new chapters include energy conversion, energy storage, emerging nanoscience and technology. Updated sections include more material on biomass conversion, as well as three chapters covering biotechnology topics, namely, Industrial Biotechnology, Industrial Enzymes, and Industrial Production of Therapeutic Proteins.

Shreve's Chemical Process Industries - GEORGE T. AUTHOR AUSTIN 1984

This book bridges the gap between theory and practice. It provides fundamental information on heterogeneous catalysis and the practicalities of the catalysts and processes used in producing ammonia, hydrogen and methanol via hydrocarbon steam reforming. It also covers the oxidation reactions in making formaldehyde from methanol, nitric acid from ammonia and sulphuric acid from sulphur dioxide. Designed for use in the chemical industry and by those in teaching, research and the study of industrial catalysts and catalytic processes. Students will also find this book extremely useful for obtaining practical information which is not available in more conventional textbooks.

Lessons in Industrial Instrumentation 1/3 - Tony R. Kuphaldt 2017-05-18

Everything you can learn about the practical automation at one place.

Guidelines for the Mitigation of Pollution of Coastal Waters from Hazardous Industrial Wastes: Hydrogen peroxide industry - 1990

Elementary Chemical Engineering - Max S. Peters 1984

Chemical Process Technology - Jacob A. Moulijn 2013-03-21

With a focus on actual industrial processes, e.g. the production of light alkenes, synthesis gas, fine chemicals, polyethylene, it encourages the reader to think “out of the box” and invent and develop novel unit operations and processes. Reflecting today’s emphasis on sustainability, this edition contains new coverage of biomass as an alternative to fossil fuels, and process intensification. The second edition includes: New chapters on Process Intensification and Processes for the Conversion of Biomass Updated and expanded chapters throughout with 35% new material overall Text boxes containing case studies and examples from various different industries, e.g. synthesis loop designs, Sasol I Plant, Kaminsky catalysts, production of Ibuprofen, click chemistry, ammonia synthesis, fluid catalytic cracking Questions throughout to stimulate debate and keep students awake! Richly illustrated chapters with improved figures and flow diagrams Chemical Process Technology, Second Edition is a comprehensive introduction, linking the fundamental theory and concepts to the applied nature of the subject. It will be invaluable to students of chemical engineering, biotechnology and industrial chemistry, as well as practising chemical engineers. From reviews of the first edition: “The authors have blended process technology, chemistry and thermodynamics in an elegant manner... Overall this is a welcome addition to books on chemical technology.” - The Chemist “Impressively wide-ranging and comprehensive... an excellent textbook for students, with a combination of fundamental knowledge and technology.” - Chemistry in Britain (now Chemistry World)

Investigation of the Role of Phosphates in PM10 Pollution in the Pocatello, Idaho Nonattainment Area - Donna Jean Charlevoix 1996

Industrial Instrumentation Fundamentals - Fribance A E. 1970

Handbook of Separation Process Technology - Ronald W. Rousseau 1987-05-13

Surveys the selection, design, and operation of most of the industrially important separation processes. Discusses the underlying principles on which the processes are based, and provides illustrative examples of the use of the processes in a modern context. Features thorough treatment of newer separation processes based on membranes, adsorption, chromatography, ion exchange, and chemical complexation. Includes a review of historically important separation processes such as distillation, absorption, extraction, leaching, and crystallization and considers these techniques in light of recent developments affecting them.

Perry's Chemical Engineers' Handbook, 9th Edition - Don W. Green 2018-07-13

Up-to-Date Coverage of All Chemical Engineering Topics—from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition, this industry-standard resource has equipped generations of engineers and chemists with vital information, data, and insights. Thoroughly revised to reflect the latest technological advances and processes, Perry's Chemical Engineers' Handbook, Ninth Edition, provides unsurpassed coverage of every aspect of chemical engineering. You will get comprehensive details on chemical processes, reactor modeling, biological processes, biochemical and membrane separation, process and chemical plant safety, and much more. This fully updated edition covers: Unit Conversion Factors and Symbols • Physical and Chemical Data including Prediction and Correlation of Physical Properties • Mathematics including Differential and Integral Calculus, Statistics, Optimization • Thermodynamics • Heat and Mass Transfer • Fluid and Particle Dynamics • Reaction Kinetics • Process Control and Instrumentation • Process Economics • Transport and Storage of Fluids • Heat Transfer Operations and Equipment • Psychrometry, Evaporative Cooling, and Solids Drying • Distillation • Gas Absorption and Gas-Liquid System Design • Liquid-Liquid Extraction Operations and Equipment • Adsorption and Ion Exchange • Gas-Solid Operations and Equipment • Liquid-Solid Operations and Equipment • Solid-Solid Operations and Equipment • Chemical Reactors • Bio-based Reactions and Processing • Waste Management including Air, Wastewater and Solid Waste Management • Process Safety including Inherently Safer Design • Energy Resources, Conversion and Utilization • Materials of Construction

Operations Management in Automotive Industries - Marco Gobetto 2013-10-23

This book has proved its worth over the years as a text for courses in Production Management at the Faculty of Automotive Engineering in Turin, Italy, but deserves a wider audience as it presents a compendium of basics on Industrial Management, since it covers all major topics required. It treats all subjects from product development and “make or buy”-decision strategies to the manufacturing systems setting and management through analysis of the main resources needed in production and finally exploring the supply chain management and the procurement techniques. The very last chapter recapitulates the previous ones by analysing key management indicators to pursue the value creation that is the real purpose

of every industrial enterprise. As an appendix, a specific chapter is dedicated to the basics of production management where all main relevant definitions, techniques and criteria are treated, including some numerical examples, in order to provide an adequate foundation for understanding the other chapters. This book will be of use not only to Automotive Engineering students but a wide range of readers who wish to gain insight in the world of automotive engineering and the automotive industry in general.

Sulfur Dioxide Processing - 1975

Industrial Chemical Process Design, 2nd Edition - Douglas Erwin 2014

Written by a hands-on industry consultant and featuring more than 200 illustrations, *Chemical Process Equipment - Selection and Design (Revised 2nd Edition)* - James R. Couper 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

Fundamentals of Thermochemical Biomass Conversion - R.P. Overend 2012-12-06

Throughout the world many projects have been underway to investigate the conversion of renewable biomass into energy and synthetic fuels by thermo chemical methods such as combustion, pyrolysis, gasification and liquefaction. While many of these represent prior art used during the early 20th century, the recent decade since the 1970s oil shock has immeasurably increased the knowledge base for such processes. Much of the new knowledge has been gained by persons who were not trained in classical wood chemistry and there have not yet been many attempts to synthesize the knowledge into a corpus of systematic information. To bring this about the International Energy Agency's Forestry Energy collaboration, the Gas Research Institute, the National Research Council of Canada and the US Department of Energy jointly sponsored a conference on the Fundamentals of Thermochemical Biomass Conversion in Estes Park, Colorado which was held on October 18-22, 1982. The Conference, which was structured around invited plenary papers and contributions from researchers, served as the basis for the papers in this volume which reflect the substantial conclusions of the Conference. During the planning for the Conference, it was realized by the editors in their capacity as Co-chairmen that a major problem in biomass research was the lack of reproducibility between reported experiments and their inter comparison on account of the heterogeneity of biomass materials. A well known wood chemist, George M.