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Particles in Water John Gregory 2005-09-06 Based on the author's more than 35 years of experience, Particles in Water: Properties and Processes examines particles and their behavior in water systems. The book offers clear and accessible methods for characterizing a range of particles both individually and as aggregates. The author delineates the principles for understanding particle properties and shows how such information contributes to the understanding and improvement of water treatment processes, including sedimentation, flocculation, and filtration. A distillation of the author's years of experience, the book explores practical applications of fundamental principles. Outlining the origin, nature, and properties of particles in water, the author covers particle size, transport processes, and light scattering and provides a broad outline of important techniques for particle size determination. He discusses the important topic of surface charge, which plays a major role in colloid stability and interactions between particles, with some emphasis on the role of dissolved salts. The book gives an account of particle aggregation kinetics, the form of aggregates, and aggregate strength and explores coagulation and flocculation and the modes of action of some common additives used in these processes. The book concludes with an overview of important solid-liquid separation processes and the principles on which they are based. The author presents the material in an easily accessible style, using just enough math to be clear but not so much as to be overwhelming. Highlighting the growing importance of advanced filtration systems in water treatment, this book provides an excellent summary of the behavior of particles in water systems and in relation to the techniques designed to capture and remove them.

[Unsere gemeinsame Zukunft](#). Volker Hauff 1987-01

Petroleum Refining James H. Gary 1994 This third edition presents the latest developments in the fundamental aspects of petroleum refining technology and economics, discussing both the physical and chemical properties of petroleum, petroleum products and oxygenate fuel additives. It examines current environmental requirements and downstream implications of the Clean Air Act regarding processing, fuels and product specifications. End-of-chapter problems, a case study and sample illustrations are included.

Process / Industrial Instruments and Controls Handbook, Sixth Edition Gregory K. McMillan 2019-04-12 Extensive practical plant based knowledge to achieve the best automation system BACK COVER DESCRIPTION: This fully updated on-the-job reference contains all the automation and control information you need to make timely decisions, and maximize process capacity and efficiency. Featuring contributions from 50 top technical experts, Process/Industrial Instruments and Controls Handbook, Sixth Edition covers the latest technologies and advances. More importantly, the book helps you select the right instrumentation, install and maintain it correctly, and leverage it to maximize plant performance and profitability. You will get all you need to know to execute a successful automation project including time-saving tables, lists of essential best practices, and hundreds of topic-defining illustrations. Coverage includes: •Process variable measurements•Analytical measurements•Control Network communications•Safety instrumented systems•Control systems fundamentals•PID control strategies•Continuous and batch control•Improving operator performance•Improving process performance•Project management•And more

To Become a Sage Hwang Yi 1988 Yi Hwang (1501-1570), better known by his pen name T'oegyee, is generally considered Korea's preeminent Neo-Confucian scholar. The Ten Diagrams on Sage Learning is his final masterpiece, a distillation of the learning and practice of a lifetime, and one of the most important works of Korean Neo-Confucianism. In it he crystallized the essence of Neo-Confucian philosophy and spiritual practice in ten brief chapters that begin with the grand vision of the universe and conclude with a description of a well-lived day. In To Become a Sage, Michael Kalton supplements a superb translation of this pivotal text with useful commentary that will greatly enhance its value and interest to the lay reader. The Ten Diagrams is the first complete primary text of Korean Neo-Confucianism to be translated into English. Korea's Yi Dynasty (1392-1910), the only East Asian regime founded exclusively under Neo-Confucian auspices, was unique in its allegiance to the orthodox Ch'eng Chu school, predominant in China, Korea, and Japan. Although the Ten Diagrams is a relatively short work, it fully presents the entire vision of Neo-Confucianism as framed in that school. Kalton provides a brief history of Neo-Confucianism in China and Korea as well as commentary that includes extensive passages from T'oegyee's voluminous personal correspondence. These annotations expand the meaning distilled in each chapter. They help the uninitiated reader understand the basic elements of the complex Ch'eng Chu school of Neo-Confucianism, while enabling the scholar to distinguish characteristic aspects of Korean Neo-Confucianism as presented in the thought of the nation's leading philosopher of the time.

Industrial Microbiology and Biotechnology Pradeep Verma

Removal of Pollutants from Saline Water Shaik Feroz 2021-12-23 Removal of Pollutants from Saline Water: Treatment Technologies provides a comprehensive understanding of technologies that are currently adopted in the treatment of pollutants present in saline water systems. It provides information on the treatment technologies for saline water systems, including seawater, brackish water, oil-produced water, and other industrial saline wastewaters. FEATURES Presents information exclusively for saline water pollutant removal Introduces current treatment technologies and addresses why and how the techniques differ between fresh and salt water Offers an inclusive overview of physicochemical, biological, membrane, and advanced oxidation treatment technologies Features various perspectives and case studies from relevant global experts Provides a comprehensive one-stop source for the treatment of pollutants in all saline water systems Aimed at students, academicians, researchers, and practicing engineers in the fields of chemical, civil, marine, and environmental engineering who wish to be acquainted with the most recent developments in the treatment of pollutants present in saline water systems. Prof. Dr. Shaik Feroz works at Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia. He has 30 years of experience in teaching, research, and industry. He has more than 190 publications to his credit in journals and conferences of international repute. He was awarded "Best Researcher" by Caledonian College of Engineering for the year 2014. Prof. Dr. Detlef W. Bahnemann is Head of the Research Unit, Photocatalysis and Nanotechnology at Leibniz University Hannover (Germany), Director of the Research Institute "Nanocomposite Materials for Photonic Applications" at Saint Petersburg State University (Russian Federation), and Distinguished Professor at Shaanxi University of Science and Technology in Xi'an (People's Republic of China). His research topics include photocatalysis, photoelectrochemistry, solar chemistry, and photochemistry focused on synthesis and physical-chemical properties of semiconductor and metal nanoparticles. His 500-plus publications have been cited more than 65,000 times (h-index: 100). *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

Membrane Contactors: Fundamentals, Applications and Potentialities Enrico Drioli 2006-01-02 Membrane Contactors: Fundamentals, Applications and Potentialities, Volume 11 covers new operations

that could be efficiently used to improve the performance of a variety of industrial production cycles in applications ranging from biotechnology to agrofood. This book focuses on the basic "principles of work": required membrane materials and properties; major operating parameters; the importance of module configuration and design and; the performance of membrane contactors in specific processes. The authors' dynamic approach to this subject makes Membrane Contactors: Fundamentals, Applications and Potentialities, Volume 11 the most comprehensive book currently available on all aspects related to the 'membrane contactor world. * Describes new unit operations in process engineering * Covers a wide variety of industrial applications, from biotechnology to agrofood * Applicable to process intensification and sustainable growth strategies

[Model Based Process Control](#) T.J. McAvoy 2014-06-28 Presented at this workshop were mathematical models upon which process control is based and the practical applications of this method of control within industry; case studies include examples from the paper and pulp industry, materials industry and the chemical industry, among others. From these presentations emerged a need for further research and development into process control. Containing 19 papers these Proceedings will be a valuable reference work for all those involved in the designing of continuous production processes for industry and for the end user involved in the practical application of process control within their manufacturing process.

[Logo Design Love](#) David Airey 2010

Control Science & Technology For Development (CSTD'85) Yang Jiachi 2014-06-28 Provides a detailed analysis of the recent developments and practical applications of automatic control. Of particular interest are control problems related to power systems, water supply systems, pollution, industrial processes, energy economics and production management systems. Contains over 80 papers.

Separation of Molecules, Macromolecules and Particles Kamalesh K. Sirkar 2014-01-16 Providing chemical engineering undergraduate and graduate students with a basic understanding of how separation of a mixture of molecules, macromolecules or particles is achieved, this textbook is a comprehensive introduction to the engineering science of separation. • Students learn how to apply their knowledge to determine the separation achieved in a given device or process • Real-world examples are taken from biotechnology, chemical, food, petrochemical, pharmaceutical and pollution control industries • Worked examples, elementary separator designs and chapter-end problems are provided, giving students a practical understanding of separation. The textbook systematically develops different separation processes by considering the forces causing the separation and how this separation is influenced by the patterns of bulk flow in the separation device. Readers will be able to take this knowledge and apply it to their own future studies and research in separation and purification. Online resources include solutions to the exercises and guidance for computer simulations.

"Der" Bosphor und Constantinopel Philipp Anton Dethier 1873

[New Opportunities for Innovation Breakthroughs for Developing Countries and Emerging Economies](#)

Rachid Benmoussa 2019-10-03 This book constitutes the refereed proceedings of the 19th International TRIZ Future Conference on Automated Invention for Smart Industries, held in Marrakesh, Morocco, in October 2019 and sponsored by IFIP WG 5.4. The 41 full papers presented were carefully reviewed and selected from 72 submissions. They are organized in seven thematic sections: TRIZ improvement: theory, methods and tools; TRIZ and other innovation approaches; TRIZ applications in technical design; TRIZ applications in eco design; TRIZ applications in software engineering; TRIZ applications in specific disciplinary fields; and TRIZ in teaching.

Government Reports Announcements & Index 1989

Grundzüge des Marketing Dieter Ahlert 2013-03-08 "Grundzüge des Marketing" zeigt die Analyse der absatzpolitischen Konzeption, untergliedert in ein Abnehmer-Selektions-Konzept. Konsequent wird unterschieden zwischen - dem Instrument der Absatzpolitik als Aktionsmöglichkeit - der Maßnahme (Handlung, Aktion) der Absatzpolitik als tatsächlich realisierte Kombination von Aktionselementen aus unterschiedlichen Instrumenten - der Strategie der Absatzpolitik als geplante Folge absatzpolitischer Maßnahmen im Zeitablauf.

[Predicting the Performance of Multistage Separation Processes, Second Edition](#) Fouad M. Khoury 1999-10-15 Multistage separation processes are essentially the heart and soul of the petroleum, petrochemical, and chemical industries. They yield products as common as gasoline and plastics and those as specialized as medical-grade pharmaceuticals. Predicting the Performance of Multistage Separation Processes provides chemical engineers with solid information and insights into these processes. It reaches beyond fundamental principles to focus on intuitive understanding and practical interpretation. To that end, it presents numerous examples from a variety of applications, effectively demonstrating the performance of processes under varying conditions and the relationship among the different operating variables. With major advances in computational techniques for solving complex multistage separation equations, a variety of simulation programs have emerged that allow accurate and efficient prediction of multistage separation processes. These are valuable and effective tools, but are often hampered by a lack of understanding of the fundamentals and limitations of prediction techniques. The author addresses these problems and pursues a strategy that decouples the discussion of conceptual analysis and the computational techniques. Although Dr. Khoury presents mathematical methods in detail, he gives special attention to keeping the practical interpretation of the models in focus and emphasizes intuitive understanding. He applies graphical techniques and shortcut methods wherever possible and includes industrial practice heuristics about the ranges of operating variables that will work. With its updates and the addition of more than 100 new applications problems and solutions, Predicting the Performance of Multistage Separation Processes, Second Edition is ideal for a methodical study of separation processes and as a reference for the fundamental principles and shortcuts useful to the working professional.

Survey of Industrial Chemistry Philip J. Chenier 1986-10-14 A basic text that integrates fundamental research and development in applied chemistry with chemical engineering and chemical marketing. Emphasizes the business aspects of the chemical industry as well as manufacturing and economic problems that students will face in their careers on a day-to-day basis. Covers all aspects of the chemical industry as well as other industries in which chemists are employed. Topics included are emphasized according to the Annual Survey of Manufacturers' assessment of value added to the chemical industry's contribution to the gross national product: inorganic and organic chemicals, plastics, fibers, synthetic rubber, paints and varnishes, and more.

[Quantum Cryptography and Secret-Key Distillation](#) Gilles van Assche 2006-06-29 Quantum cryptography (or quantum key distribution) is a state-of-the-art technique that exploits properties of quantum mechanics to guarantee the secure exchange of secret keys. This 2006 text introduces the principles and techniques of quantum cryptography, setting it in the wider context of cryptography and security, with specific focus on secret-key distillation. The book starts with an overview chapter, progressing to classical cryptography, information theory (classical and quantum), and applications of quantum cryptography. The discussion moves to secret-key distillation, privacy amplification and reconciliation techniques, concluding with the security principles of quantum cryptography. The author explains the physical implementation and security of these systems, enabling engineers to gauge the suitability of quantum cryptography for securing transmission in their particular application. With its blend of fundamental theory, implementation techniques, and details of recent protocols, this book will be of interest to graduate students, researchers, and practitioners in electrical engineering, physics, and computer science.

[Fluidverfahrenstechnik](#) Ralf Goedecke 2011 Diese umfassendste Darstellung des Themas in deutscher Sprache wurde von namhaften Experten aus Hochschule und Industrie geschrieben. Grundlagen und Praxis der Fluidverfahrenstechnik werden allgemeinverständlich und mit vielen Praxisbeispielen erklärt. Die Studienausgabe enthält den kompletten Inhalt der Erstausgabe: über 1200 Seiten mit Expertenwissen, die keine Fragen offen lassen. Mit seiner breit gefächerten Thematik ist das Buch ein zuverlässiger Begleiter für Planungs- und Betriebsingenieure wie für Neueinsteiger und Hochschulabgänger, die Grundlagenwissen in die Praxis umsetzen wollen. '... zeichnet sich neben der Methodik vor allem auch durch den Praxisbezug und das beschriebene Erfahrungswissen aus. ... Es kann als Wissensvermittler, Ratgeber und auch als Nachschlagewerk empfohlen werden.' (Filterieren und Separieren)

Zukünftige Kraftstoffe Wolfgang Maus 2019-04-13 Das Buch ist als Kompendium angelegt und deckt das Wissen von Gesetzes-, Verbands- und Wirtschaftssektoren ab, die für die zukünftige nachhaltige Mobilität von entscheidender Bedeutung sind: 1. Regulatorische und umweltpolitische Randbedingungen; 2. Energiebereitstellung, Sektorkopplung, wirtschaftliche Bedeutung; 3. Nachhaltige Kraftstoffe für die Energiewende im Transport-, Verkehrssektor; 4. Anwendung synthetischer Otto- und Dieselmotorkraftstoffe.

Chemical Abstracts 1908

Pollution Prevention Kenneth L. Mulholland 1999 As many industries are beginning to learn, pollution prevention technologies offer more than just a way to comply with regulations, or even to "do the right thing." It also makes smart business sense. The authors of this book, both veterans of DuPont's in-house waste reduction team, have put together a "how-to" guide for locating and implementing the best pollution prevention strategies for particular manufacturing processes. The book codifies elements of fundamental pollution prevention knowledge that are "easily understood and broadly applicable," across a wide range of industries. At the heart of the book is what the authors call the "10-Step Method for Engineering Evaluations of Pollution Prevention Methods," which breaks down the process to such simple steps as defining problems, setting goals, and identifying, defining, and evaluating alternative strategies.

Modern Chemical Technology and Emission Control Martin Blake Hocking 1985 This text of applied chemistry considers the interface between chemistry and chemical engineering, using examples of some of the important process industries. Integrated with this is detailed consideration of measures which may be taken for avoidance or control of potential emissions. This new emphasis in applied chemistry has been developed through eight years of experience gained from working in industry in research, development and environmental control fields, plus twelve years of teaching here using this approach. It is aimed primarily towards science and engineering students as well as to environmentalists and practising professionals with responsibilities or an interest in this interface. By providing the appropriate process information back to back with emissions and control data, the potential for process fine-tuning is improved for both raw material efficiency and emission control objectives. This approach also emphasizes integral process changes rather than add-on units for emission control. Add-on units have their place, when rapid action on an urgent emission problem is required, or when control simply is not feasible by process integral changes alone. Obviously fundamental process changes for emission containment are best conceived at the design stage. However, at whatever stage process modifications are installed, this approach to control should appeal to the industrialist in particular, in that something more substantial than decreased emissions may be gained.

The Meaning of Flight Christopher Meredith 2005 Best known as a novelist, this poet uses fiction-writing techniques to create memorable settings and characters, and a narrative voice that ranges from contemplation to irony. Darker forces of alienation also intrude in the form of preoccupations about belonging and dislocation, belief and doubt, rigidity and movement, and time-honored questions about how the real world is changed by the attempt to capture it in art.

Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics - E-Book Carl A. Burtis 2014-08-14 A condensed, easier-to-understand student version of the acclaimed Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics, 7th Edition uses a laboratory perspective in providing the clinical chemistry fundamentals you need to work in a real-world, clinical lab. Coverage ranges from laboratory principles to analytical techniques and instrumentation, analytes, pathophysiology, and more. New content keeps you current with the latest developments in molecular diagnostics. From highly respected clinical chemistry experts Carl Burtis and David Bruns, this textbook shows how to select and perform diagnostic lab tests, and accurately evaluate results. Authoritative, respected author team consists of two well-known experts in the clinical chemistry world. Coverage of analytical techniques and instrumentation includes optical techniques, electrochemistry, electrophoresis, chromatography, mass spectrometry, enzymology, immunochemical techniques, microchips, automation, and point of care testing. Learning objectives begin each chapter, providing measurable outcomes to achieve after completing the material. Key words are listed and defined at the beginning of each chapter, and bolded in the text. A glossary at the end of the book makes it quick and easy to look up definitions of key terms. More than 500 illustrations plus easy-to-read tables help you understand and remember key concepts. New chapters on molecular diagnostics include the principles of molecular biology, nucleic acid techniques and applications, and genomes and nucleic acid alterations, reflecting the changes in this rapidly evolving field. New content on clinical evaluation of methods, kidney function tests, and diabetes is added to this edition. NEW multiple-choice review questions at the end of each chapter allow you to measure your comprehension of the material. NEW case studies on the Evolve companion website use real-life scenarios to reinforce concepts.

Mass Transfer Koichi Asano 2006-10-06 This didactic approach to the principles and modeling of mass transfer as it is needed in modern industrial processes is unique in combining a step-by-step introduction to all important fundamentals with the most recent applications. Based upon the renowned author's successful new modeling method as used for the O-18 process, the exemplary exercises included in the text are fact-proven, taken directly from existing chemical plants. Fascinating reading for chemists, graduate students, chemical and process engineers, as well as thermodynamics physicists.

Kunststoffverarbeitung Otto Schwarz 1991-01

Alternative Energy Sources and Technologies Mariano Martín 2016-03-22 Presenting a comprehensive analysis of the use of alternative sources of energy and technologies to produce fuels and power, this book describes the energy value chain from harvesting the raw material, (i.e solar, wind, biomass or shale gas) followed by analysis of the processing steps into power, fuels and/or chemicals and finally the distribution of the products. Featuring an examination of the techno-economic processes and integration opportunities which can add value to by-products or promote the use of different sources of energy within the same facility, this book looks at the tools that can make this integration possible as well as utilising a real world case study. The case study of the operation of "El hierro" island is used as an example of the current effort towards more efficient use of the resources available. Tackling head on the open challenges of the supply, the variability of the source and its prediction, the description of novel processes that are being developed and evaluated for their transformation as well as how we can distribute them to the consumer and how we can integrate the new chemicals, fuels and power within the current system and infrastructure, the book takes a process based perspective with such an approach able to help us in the use and integration of these sources of energy and novel technologies.

Rigorse Modellierung und Simulation von Chemisorptionsprozessen Bernhard Hüpen 2008

Salt-Water Purification K. Spiegler 1977-11 This introductory book is for newcomers to the field of desalting. As a result of the development of arid regions, and also in the wake of intensive use of water in urban areas all over the world, fresh water is frequently not available in the quantities desired. In the last 20 years, great strides have been made in the development of the science and technology of water desalting. Statesmen, economists, scientists, and engineers must often make decisions relating to this field. Quite often such decisions involve the disposition of considerable amounts of energy and investment funds. It is hoped that this book will provide newcomers with sufficient background to appreciate the fundamentals involved, to understand the jargon of the "insiders," to guide them to the rich original multidisciplinary literature of this field, and to facilitate the first stages of further reading. Conversion of salt water into fresh water requires useful energy, i. e. , energy that could otherwise be used for mechanical or electrical work. Therefore, the problem of water desalting is intimately linked to power supply. A second, equally important factor in the economic balance is the availability and cost of equipment. The production of energy-efficient and reliable desalting plants requires considerable engineering skill and usually a variety of fairly sophisticated control devices.

Process Intensification Jan Harmsen 2020-07-20 Process Intensification is a comprehensive textbook and treats the theory of process intensification design, and all innovation steps from idea generation to commercial implementation, and all focused on contributing to the UN Sustainable Development Goals.

This book covers the 'hard' elements of design, modelling, and experimental validations and the 'soft' elements, values of engineers, interests of stakeholders and beliefs of society.

Government reports annual index 1997

Orientalismus Edward W. Said 2009

Destillier- und Rektifiziertchnik Emil Kirschbaum 2013-08-13 Dieser Buchtitel ist Teil des Digitalisierungsprojekts Springer Book Archives mit Publikationen, die seit den Anfängen des Verlags von 1842 erschienen sind. Der Verlag stellt mit diesem Archiv Quellen für die historische wie auch die disziplingeschichtliche Forschung zur Verfügung, die jeweils im historischen Kontext betrachtet werden müssen. Dieser Titel erschien in der Zeit vor 1945 und wird daher in seiner zeittypischen politisch-ideologischen Ausrichtung vom Verlag nicht beworben.

Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971 New York Public Library. Research Libraries 1979

Fiefs and Vassals Susan Reynolds 1994 Fiefs and Vassals has changed our view of the medieval world. It offers a fundamental challenge to orthodox conceptions of feudalism. Susan Reynolds argues that the concepts of the fief and of vassalage, as understood by historians of medieval Europe, were constructed by post-medieval scholars from the works of medieval academic lawyers and that they provide a bad guide to the realities of medieval society. This is a radical new examination of relations between rulers, nobles, and free men, the distillation of wide-ranging research by a leading medieval historian. It has revolutionized the way w.

History, Change and Sustainability Detlev Möller 2020-03-09 Climate change is a major challenge facing modern society. The chemistry of air and its influence on the climate system forms the main focus of this book. Vol. 2 of Chemistry of the Climate System takes a problem-based approach to presenting global atmospheric processes, evaluating the effects of changing air compositions as well as possibilities for interference with these processes through the use of chemistry.

Pollution Prevention Louis Theodore 1992 This text-reference, intended primarily for regulatory personnel, practicing engineers, and engineering/science students, contains engineering methods for source reduction and the technical aspects of pollution prevention in general. The volume is divided into four parts: process and plant fundamentals, pollution prevention options, pollution prevention applications, and case studies. It assumes background equivalent to the basic courses in physics and chemistry, and mathematics through calculus. Annotation copyright by Book News, Inc., Portland, OR