

Synthesis Of N Butyl Acetate Via Esterification

Zhangfa Tong,Sung Hyun Kim

Proceedings of the 4th International Conference on Separations Science and Technology Zhangfa Tong,Sung Hyun Kim,2004 This book presents the latest achievements of separation science and technology. It highlights the application of separation with regard to problems of current interest, such as the protection of the environment and the development of emerging technology, including chemical engineering, biotechnology, renewable energy sources and recycling of materials.

Separation and Purification Technologies in Biorefineries Shri Ramaswamy,Hua-Jiang Huang,Bandaru V. Ramarao,2013-02-04 Separation and purification processes play a critical role in biorefineries and their optimal selection, design and operation to maximise product yields and improve overall process efficiency. Separations and purifications are necessary for upstream processes as well as in maximising and improving product recovery in downstream processes. These processes account for a significant fraction of the total capital and operating costs and also are highly energy intensive. Consequently, a better understanding of separation and purification processes, current and possible alternative and novel advanced methods is essential for achieving the overall techno-economic feasibility and commercial success of sustainable biorefineries. This book presents a comprehensive overview focused specifically on the present state, future challenges and opportunities for separation and purification methods and technologies in biorefineries. Topics covered include: Equilibrium Separations: Distillation, liquid-liquid extraction and supercritical fluid extraction. Affinity-Based Separations: Adsorption, ion exchange, and simulated moving bed technologies. Membrane Based Separations: Microfiltration, ultrafiltration and diafiltration, nanofiltration, membrane pervaporation, and membrane distillation. Solid-liquid Separations: Conventional filtration and solid-liquid extraction. Hybrid/Integrated Reaction-Separation Systems: Membrane bioreactors, extractive fermentation, reactive distillation and reactive absorption. For each of these processes, the fundamental principles and design aspects are presented, followed by a detailed discussion and specific examples of applications in biorefineries. Each chapter also considers the market needs, industrial challenges, future opportunities, and economic importance of the separation and purification methods. The book concludes with a series of detailed case studies including cellulosic bioethanol production, extraction of algae oil from microalgae, and production of biopolymers. Separation and Purification Technologies in Biorefineries is an essential resource for scientists and engineers, as well as researchers and academics working in the broader conventional and emerging bio-based products industry, including biomaterials, biochemicals, biofuels and

bioenergy.

Chemical Engineering Process Simulation Nishanth G. Chemmangattuvalappil, Chien Hwa Chon, Denny Ng Kok Sum, Rafil Elyas, Cheng-Liang Chen, I Lung Chien, Hao-Yeh Lee, Rene D Elms, 2017-07-13 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 UniSim Design, PRO/II, ProMax, Aspen HYSYS for process simulation novices - Helps readers predict the characteristics of a process using mathematical models and computer-aided process simulation tools

Membrane Reactors for Energy Applications and Basic Chemical Production Angelo Basile, Luisa Di Paola, Faisal Hai, Vincenzo Piemonte, 2015-02-05 Membrane Reactors for Energy Applications and Basic Chemical Production presents a discussion of the increasing interest in membrane reactors that has emerged in recent years from both the scientific and industrial communities, in particular their usage for energy applications and basic chemical production. Part One of the text investigates membrane reactors for syngas and hydrogen production, while Part Two examines membrane reactors for other energy applications, including biodiesel and bioethanol production. The final section of the book reviews the use of membrane reactors in basic chemical production, including discussions of the use of MRs in ammonia production and the dehydrogenation of alkanes to alkenes. - Provides comprehensive coverage of membrane reactors as presented by a world-renowned team of experts - Includes discussions of the use of membrane reactors in ammonia production and the dehydrogenation of alkanes to alkenes - Tackles the use of membrane reactors in syngas, hydrogen, and basic chemical production - Keen focus placed on the industry, particularly in the use of membrane reactor technologies in energy

Developing Technologies in Food Science Murlidhar Meghwal, Megh R. Goyal, 2017-06-01 This new volume, the 7th in the Innovations in Agricultural & Biological Engineering book series, focuses on emerging trends, applications and challenges in

food science and technology. While food science and technology is not a new field, it is constantly changing due to new technology, new science, and new demands. This multidisciplinary book not only considers food processing, preservation, and distribution, but it also taken into account the consumer's wants and needs. Included is a report of the status of agricultural production and food processing industries in India with a national and international perspective. The book then goes on to explore new and emerging trends in the science and technology in the field, including • applications of nuclear magnetic resonance in food processing and packaging management • ultrasound processing • application of biocomposite polymers in food packaging • bioprocessing and biorefinery approaches for sustainable fisheries • adding value to food from food waste through biotechnological intervention • functional foods and the fortification of foods Covering a broad selection of topics in the field, the volume will be of interest to food scientists and technologists, food process engineers, researchers, faculty and students, and many others the food science and technology industry.

Green Fuels Technology Carlos Ricardo Soccol,Satinder Kaur Brar,Craig Faulds,Luiz Pereira Ramos,2016-08-10 This book presents key recent developments in biofuel policy, products, processes, patents and innovative technologies. It presents several case studies, which maximize reader insights into how innovative green energy technologies can be implemented on an industrial scale, with illustrations, photos and new approaches. It also analyzes in detail several different technological aspects of the research into and production of green fuels from the first, second and third generation, such as, bioethanol, biogas, biohydrogen, biobutanol, biofuels from pyrolysis, and discusses their economic and environmental impacts. A new source of information for engineers, technicians and students involved in production and research in the biofuels sector, this book also provides a valuable resource for industry, covering the current and future status of biofuels.

Distillation: Equipment and Processes Andrzej Gorak,Zarko Olujić,2014-06-24 Distillation: Equipment and Processes—winner of the 2015 PROSE Award in Chemistry & Physics from the Association of American Publishers—is a single source of authoritative information on all aspects of the theory and practice of modern distillation, suitable for advanced students and professionals working in a laboratory, industrial plants, or a managerial capacity. It addresses the most important and current research on industrial distillation, including all steps in process design (feasibility study, modeling, and experimental validation), together with operation and control aspects. This volume features an extra focus on distillation equipment and processes. - Winner of the 2015 PROSE Award in Chemistry & Physics from the Association of American Publishers - Practical information on the newest development written by recognized experts - Coverage of a huge range of laboratory and industrial distillation approaches - Extensive references for each chapter facilitates further study

Current Trends and Future Developments on (Bio-) Membranes Angelo Basile,Fausto Gallucci,2022-10-20 Integrated Membrane Reactors explores recent developments and future perspectives in the area of membrane reactor (MR) systems. It includes fundamental principles, the different types of membrane materials (such as polymeric and inorganic), the

different types of membrane reactors (such as Micro MRs, Enzymatic MRS, Photo-catalytic MRs, Pervaporation MRs, Electrochemical MRs, etc.), their industrial perspective and, finally, there also is an economic evaluation of the metallic MRs. The book provides an extensive review in the area of MRs for each kind of application present in the specialized literature and discusses their modelling and design approaches necessary for MR systems validation in achieving high conversions, energy savings, high yields and high hydrogen (or others) products of the reactions studied. - Includes membrane preparation and characterization - Describes all the kinds of membrane reactors today under study - Focuses on many applications of membrane reactors in the area of chemical and biochemical engineering - Discusses simulation of membrane reactors enabling their design - Introduces the concepts of process intensification and process integration - Illustrates all the advantages of membrane reactors with respect to the so-called traditional/convention reactor

Green Process Engineering Martine Poux, Patrick Cognet, Christophe Gourdon, 2015-06-02 This book has been edited by Martine Poux, Patrick Cognet and Christophe Gourdon from the Laboratoire de Genie Chimique/ENSIACET, Toulouse. It presents an ensemble of methods and new chemical engineering routes that can be integrated in industrial processing for safer, more flexible, economical, and ecological production processes in the context of

Distillation and Absorption 2006 Eva Sørensen, 2006 This work contains the proceedings of the Distillation and Absorption conference, which happens every 5 years. This collection of 100 contributions spanning 23 countries showcase the newest and best distillation and absorption technologies which cover a broad range of fundamental and applied aspects of the technology. To address these aspects, the contributions have been put into seven themes: modelling and simulation (steady-state, dynamic and CFD); energy efficiency and sustainability; equipment design and operation; integrated, hybrid and novel processes; process troubleshooting and handling operational problems; control and operation; and basic data.

Organocatalysis Bimal Krishna Banik, Bubun Banerjee, 2022-06-21 Organocatalysis are an important tool for greener catalytic processes due to the lack of precious metals used. This book explores different organocatalysts and their use in synthesis. Topics covered include zwitterionic imidazolium salt catalysts, asymmetric catalysts in aqueous media, beaker yeast catalysis, organocatalysts for Aldol and Michael reactions, amino acid-based organocatalysts, and Brønsted acidic surfactant organocatalysts.

Reagents, Auxiliaries, and Catalysts for C-C Bond Formation Robert M. Coates, Scott E. Denmark, 1999-07-09 Aus dem bestehenden Material der Encyclopedia of Reagents for Organic Synthesis (EROS) werden Paquette und die Herausgeber 500 bevorzugte Reagenzien auswählen, die dann in 4 Bände entsprechend ihrer Klassifikation eingeteilt werden, z.B. Oxidations- und Reduktionsreagenzien. Die endgültigen Titel der Bände werden festgelegt, sobald die Auswahl der 500 Reagenzien vorgenommen wurde. Jeder Band wird sich in Umfang und Struktur an EROS orientieren, d.h. er verfügt über eine Einleitung, die ausgewählten Reagenzien erscheinen in alphabetischer Reihenfolge, und es gibt jeweils einen Index zu

Reagenzien, Autoren und Themenkomplexen. Für jedes Reagenz werden die physikalischen und chemischen Daten detailliert angegeben, so daß der Leser den Gebrauch der jeweiligen Reagenz versteht und sicher mit ihr arbeiten kann.

Industrial Enzymes Julio Polaina, Andrew P. MacCabe, 2007-05-16 Recent developments in genetic engineering and protein chemistry are bringing ever more powerful means of analysis to bear on the study of enzyme structure. This volume reviews the most important types of industrial enzymes. In a balanced manner it covers three interrelated aspects of paramount importance for enzyme performance: three-dimensional protein structure, physicochemical and catalytic properties, and the range of both classical and novel applications.

Efficiently Studying Organic Chemistry Eberhard Breitmaier, 2022-04-11 Efficiently Studying Organic Chemistry Complete yet concise learning resource for organic chemistry exam training Based on the author's extensive teaching experience, this unique textbook comprises the essentials of organic chemistry in 86 chapters as concise, self-contained units of study. Each chapter, visually presented as one or two double pages, includes questions to allow for immediate and effective self-examination. Answers are summarized in the appendix. Topics covered within the book include: Basic concepts (atomic and molecular orbitals, covalent bonding, hybridization, resonance, aromaticity) Molecular structure (atom connectivity, skeletal isomerism, conformation, configuration, chirality) The classes of organic compounds including natural products, polymers, and biopolymers Types, mechanisms, selectivity, and specificity of organic reactions Molecular structure elucidation (mass spectrometry, UV and visible light absorption, IR and NMR spectroscopy) Planning organic syntheses The perfect fit for bachelor and master students alike, this book is an all-in-one resource for efficiently studying and passing organic chemistry exams.

Immobilized Biocatalysts Peter Grunwald, 2018-11-14 This book is a printed edition of the Special Issue Immobilized Biocatalysts that was published in Catalysts

Advanced Materials and Engineering Taufiq Yap Yun Hin, 2014-06-30 Selected, peer reviewed papers from the Annual International Conference on Intelligent Materials and Nanomaterials (AIMN 14), April 18-19, 2014, Seoul, South Korea

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Advances in Microwave Chemistry Bimal K Banik,Debasish Bandyopadhyay,2018-12-07 Advances in Microwave Chemistry discusses the novel bond formation methodologies, synergistic effects of microwaves with other entities, sample preparation including digestion, combustion, and extraction techniques, as well as selectivity in chemical processes. Recent updates are provided on microwave-assisted syntheses of pharmacologically significant aza-, oxo- and other heterocycles, including lactams, nucleosides, bile acids and sterols, the preparation of nanomaterials, composites, and absorber layer materials for thin film. This book also incorporates comparative discussions involving microwave irradiation with conventional methods in different aspects of organic, inorganic, medicinal, and green chemistry. Key Features: Provides a comparative discussion on microwave irradiation with conventional methods in different aspects of organic, inorganic, medicinal, and green chemistry Presents recent applications of microwave radiation in biocatalysis Offers a complete package correlating various aspects of microwaves in organic syntheses, the biological impact of products formed in reactions, pharmacological features, and environmental sustainability of the procedures Explains microwave-induced reactions on structurally complex bile acids and sterols Stands as a valuable and unique addition to the well-established book series, New Directions in Organic and Biological Chemistry

Solid Acid Catalysis Hideshi Hattori,Yoshi Ono,2015-04-01 Solids that possess acidic properties on their surfaces function as catalysts just like liquid acids, such as sulfuric acid and hydrochloric acid. By using solid acid catalysts, chemical processes become more productive and more environmentally friendly. In fact, solid acids are being used in many industrial chemical processes from the largest chem

Reactive Distillation Design and Control William L. Luyben,Cheng-Ching Yu,2009-03-30 After an overview of the fundamentals, limitations, and scope of reactive distillation, this book uses rigorous models for steady-state design and dynamic analysis of different types of reactive distillation columns and quantitatively compares the economics of reactive distillation columns with conventional multi-unit processes. It goes beyond traditional steady-state design that primarily considers the capital investment and energy costs when analyzing the control structure and the dynamic robustness of disturbances, and discusses how to maximize the economic and environmental benefits of reactive distillation technology.

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