



Optimization Of Bioethanol Distillation Process

Chao Zhang



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Bioethanol Fuel Production Processes. II Ozcan Konur,2023-12-22 This book provides an overview of the research on production processes for bioethanol fuels in general hydrolysis of the pretreated biomass for bioethanol production microbial fermentation of hydrolysates and substrates with yeasts for bioethanol production and separation and distillation of bioethanol fuels from the fermentation broth complementing the research on biomass pretreatments presented in the first volume It presents an overview of the research on biomass hydrolysis in general wood hydrolysis straw hydrolysis and cellulose hydrolysis for bioethanol fuel production in the first section for biomass hydrolysis It provides an overview of the research on microbial hydrolysate fermentation for bioethanol production in general alternative fermentation processes for bioethanol fuel production such as simultaneous saccharification and fermentation SSF and consolidated biomass processing CBP compared with the separate hydrolysis and fermentation SHF process metabolic engineering of microorganisms and substrates for bioethanol fuel production and utilization of *Saccharomyces cerevisiae* for microbial fermentation of hydrolysates for bioethanol fuel production in the second section for hydrolysate fermentation It provides an overview of the research on the bioethanol fuel separation from the fermentation broth in the last section This book is a valuable resource for the stakeholders primarily in the research fields of energy and fuels chemical engineering environmental science and engineering biotechnology microbiology chemistry physics mechanical engineering agricultural sciences food science and engineering materials science biochemistry genetics molecular biology plant sciences water resources economics business management transportations science and technology ecology public environmental and occupational health social sciences toxicology multidisciplinary sciences and humanities among others

Progress in Intelligent Computing and Secure Communication Systems Chakib El Mokhi,Hanaa Hachimi,Nabil Hmina,Adnane Addaim,2025-09-26 The book provides the latest research on communication technologies intelligent computing methods and data science that can be used to achieve this and cybersecurity issues This volume will be of interest to researchers practitioners and students in the areas of information and communication technologies ICT or digital innovations This volume covers a wide range of technology progressions from 5G wireless systems to quantum computing and advanced signal processing along with modern cybersecurity solutions It explains what is currently accomplished in theory and practice as well as future enhancements This book is vital for engineers computer scientists data analysts and cybersecurity practitioners as it offers an extensive study on examples of global ICTs with related potentials It breaks the concepts of conventional thinking and provides creative methods to difficult technological puzzles

26th European Symposium on Computer Aided Process Engineering,2016-06-17 26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer Aided Process Engineering ESCAPE Event held at Portoro Slovenia from June 12th to June 15th 2016 Themes discussed at the conference include Process product Synthesis Design and Integration Modelling

Numerical analysis Simulation and Optimization Process Operations and Control and Education in CAPE PSE Presents findings and discussions from the 26th European Society of Computer Aided Process Engineering ESCAPE Event *17th European Symposium on Computed Aided Process Engineering* Valentin Plesu, Paul Serban Agachi, 2007-05-24 The 17th European Symposium on Computed Aided Process Engineering contains papers presented at the 17th European Symposium of Computer Aided Process Engineering ESCAPE 17 held in Bucharest Romania from 27-30 May 2007 The ESCAPE series serves as a forum for scientists and engineers from academia and industry to discuss progress achieved in the area of Computer Aided Process Engineering CAPE The main goal was to emphasize the continuity in research of innovative concepts and systematic design methods as well the diversity of applications emerged from the demands of sustainable development ESCAPE 17 highlights the progress software technology needed for implementing simulation based tools The symposium is based on 5 themes and 27 topics following the main trends in CAPE area Modelling Process and Products Design Optimisation and Optimal Control and Operation System Biology and Biological Processes Process Integration and Sustainable Development Participants from 50 countries attended and invited speakers presented 5 plenary lectures tackling broad subjects and 10 keynote lectures Satellite events added a plus to the scientific dimension to this symposium All contributions are included on the CD ROM attached to the book Attendance from 50 countries with invited speakers presenting 5 plenary lectures tackling broad subjects and 10 keynote lectures *Biorefinery and Industry 4.0: Empowering Sustainability* Anuj Kumar Chandel, 2024-04-01 This book provides a comprehensive overview of the latest advances in the production of low carbon chemicals and biofuels from renewable feedstock including pilot demo and commercial scale technologies It highlights the role of Industry 4.0 in improving the efficiency and affordability of biorefineries ultimately leading to the production of bio based molecules and energy with low carbon and water footprints Drawing on the expertise of established researchers academics and engineers the book presents a range of informative chapters on the subject It explores the key elements of Industry 4.0 such as interconnectivity and smart process automation and shows how these can be harnessed to revolutionize industrial processes and offer finished products in a cost effective manner With its emphasis on sustainability and cutting edge technology this book is an essential resource for anyone interested in the future of low carbon chemistry and bioenergy production 24th European Symposium on Computer Aided Process Engineering, 2014-06-20 The 24th European Symposium on Computer Aided Process Engineering creates an international forum where scientific and industrial contributions of computer aided techniques are presented with applications in process modeling and simulation process synthesis and design operation and process optimization The organizers have broadened the boundaries of Process Systems Engineering by inviting contributions at different scales of modeling and demonstrating vertical and horizontal integration Contributions range from applications at the molecular level to the strategic level of the supply chain and sustainable development They cover major classical themes at the same time exploring a new range of applications that

address the production of renewable forms of energy environmental footprints and sustainable use of resources and water

Food Plant Economics Zacharias B. Maroulis,2007-08-02 Applying the proven success of modern process engineering economics to the food industry Food Plant Economics considers the design and economic analysis of food preservation food manufacturing and food ingredients plants with regard to a number of representative food processes Economic analysis of food plants requires the evaluation of quantitative data from the design and operation of food processes and processing plants Accompanying downloadable resources include prepared Excel spreadsheets for calculating various food plants scenarios by applying appropriate data regarding the cost of equipment and equipment sizing material and energy balances and plant operating costs Beginning with a thorough background in the economics of a food plant the first three chapters summarize recent advances in food process and research technology the structure of the food system in the US and EU and the principles of modern design in food processes processing equipment and processing plants The second three chapters discuss process economics in relation to the food industry by applying the concepts of capital cost operating cost and cash flow to estimations of plant profitability Detailed chapters cover estimations of capital investment and operating costs including statistical data empirical models and useful rules of thumb The remaining three chapters apply the techniques of the previous discussions to food preservation plants such as concentration canning and dehydration manufacturing plants including wine bread and yogurt as well as ingredients plants that produce sugars and oils A useful appendix contains a glossary tables conversions nomenclature food properties and heat transfer coefficients A practical and comprehensive treatment of process economics Food Plant Economics provides a complete introduction to the application of this efficient technique to the food industry

International Journal of Engineering Research in Africa Vol. 30 Akii Okonigbon Akaehomen Ibadode,2017-05-25 The 30th volume of the International Journal of Engineering Research in Africa presents the articles that describe the results of engineering research and solutions in the fields of applied mechanics structural and building materials materials and equipment for alternative and conventional energy engineering chemical engineering biotechnologies and engineering management of modern production The articles will be useful for professionals concerned with mechanical engineering materials science chemical engineering engineering management as well as for academic teachers and students majoring in related fields

Recovery of Fermentation Products from Dilute Aqueous Solution Thomas Kevin Murphy,1984 **Philippine Agriculturist and Forester** ,1988 *The Philippine Agriculturist* ,1989 23 *European Symposium on Computer Aided Process Engineering* María Vázquez-Ojeda,Juan Gabriel

Segovia-Hernández,Salvador Hernández,Arturo Hernández-Aguirre,Anton Alexandra Kiss,2013-06-10 Due to the increasing demand for new fuels that are economically attractive and as part of the quest for energy alternatives to replace carbon based fuels the purification of ethanol plays a key role Bioethanol is an environmentally friendly fuel with less greenhouse gases emissions than gasoline but with similar energy power Nevertheless the large scale production of bioethanol fuel

requires energy demanding distillation steps to concentrate the diluted streams from the fermentation step and to overcome the azeotropic behavior of the ethanol water mixture This work presents the design and optimization of a dehydration process for ethanol using two separation sequences a conventional arrangement using distillation and extractive distillation and an alternative arrangement based on liquid liquid extraction and extractive distillation Moreover different solvents were optimized simultaneously in the liquid liquid extraction column while ethylene glycol was used as extractive agent in the extractive distillation ED Both sequences were optimized using a stochastic global optimization algorithm of differential evolution DE coupled to rigorous Aspen Plus simulations The economic feasibility of utilities for the two configurations was studied by changing the ethanol water composition in the analyzed feed stream The results demonstrate significant savings around 20% in total annual cost when the alternative arrangement is used

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Economic and Process Optimization of Ethanol Production by Extractive Fermentation Queen's University (Kingston, Ont.). Department of Chemical Engineering,Canada Centre for Mineral and Energy Technology. Efficiency and Alternative Energy Technology Branch,1992 This report demonstrates by computer simulation the economic advantages of extractive fermentation on an industrial scale compared to the best alternative technology currently available The simulations were based on a plant capacity of 100 x 10⁶ L y of azeotropic ethanol The simulation results were verified with a fully integrated computer controlled extractive fermentation process demonstration unit based around a 7 L fermentor operated with a synthetic glucose medium and using *Saccharomyces cerevisiae* The system was also operated with natural substrates blackstrap molasses and grain hydrolyzate Preliminary tests with the organism *Zymomonas mobilis* were also carried out under extractive fermentation conditions

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