



Optimization Of Bioethanol Distillation Process

Temesgen Atnafu



Optimization Of Bioethanol Distillation Process:

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

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

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. **11th International Symposium on Process Systems Engineering - PSE2012**, 2012-12-31. While the PSE community continues its focus on understanding synthesizing modeling designing simulating analyzing diagnosing operating controlling managing and optimizing a host of chemical and related industries using the systems approach, the boundaries of PSE research have expanded considerably over the years. While early PSE research was largely concerned with individual units and plants, the current research spans wide ranges of scales in size: molecules to processing units to plants to global multinational enterprises to global supply chain networks, biological cells to ecological webs, and time: instantaneous molecular interactions to months of plant operation to years of strategic planning. The changes and challenges brought about by increasing globalization and the common global issues of energy sustainability and environment provide the motivation for the theme of PSE2012: Process Systems Engineering and Decision Support for the Flat World. Each theme includes an invited chapter based on the plenary presentation by an eminent academic or industrial researcher. Reports on the state of the art advances in the various fields of process systems engineering. Addresses common global problems and the research being done to solve them. **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. **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 as the diversity of applications that emerged from the demands of sustainable development. ESCAPE 17 highlights the progress in software technology needed for implementing simulation-based tools. The symposium is based on 5 themes and 27 topics following the main trends in the 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

Optimization of Acid Hydrolysis in Ethanol Production from Prosopis juliflora Temesgen Atnafu, 2012-12-06 Master's Thesis from the year 2012 in the subject Engineering Chemical Engineering Addis Ababa University language English abstract Lignocellulosic materials eg Prosopis juliflora can be utilized to produce ethanol a promising alternative energy source for the limited crude oil This study involved optimisation of acid hydrolysis in ethanol production from prosopis juliflora The conversion of prosopis juliflora to ethanol can be achieved mainly by three process steps pretreatment of prosopis juliflora wood to remove lignin and hemicellulose acid hydrolysis of pretreated prosopis juliflora to convert cellulose into reducing sugar glucose and fermentation of the sugars to ethanol using Saccharomyces cerevisiae in anaerobic condition A two level full factorial design with four factors two levels and two replicas 24 2 32 experimental runs was applied to optimize acid hydrolysis and study the interaction effects of acid hydrolysis factors namely acid concentration solid fraction temperature and time An optimization was carried out to optimize acid hydrolysis process variables so as to determine the best acid concentration solid fraction temperature and contact time that resulted maximum ethanol yield The screening of significant acid hydrolysis factors were done by using the two level full factorial design using design expert 7 software The statistical analysis showed that the ethanol yield of 40 91% g g was obtained at optimised acid hydrolysis variables of 0 5%v v acid concentration 5%w w solid fraction 105 01 C temperature and 10 minutes hydrolysis time Keywords Prosopis juliflora pretreatment hydrolysis fermentation 2 level factorial optimization

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

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

Making a Business from Biomass in Energy, Environment, Chemicals, Fibers, and Materials R. P.

Overend, Esteban Chornet, 1997 Bioconversion of Beetle Killed Lodgepole Pine to Bioethanol John N. Saddler, 2009 □□ □□□□□, 2017 **Chemical Engineering Progress**, 2009 **Chemical Engineering**, 1998 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards**, 2008 Energy Research Abstracts, 1989 Agrindex, 1990 *The 4th International Conference on Chemical Engineering* Anastasia Prima Kristijarti, Angela Justina Kumalapatni, 2023-07-05 Selected peer reviewed extended articles based on abstracts presented at the 4th International Conference on Chemical Engineering ICCE Aggregated Book **Process Synthesis for Fuel Ethanol Production** C.A. Cardona, O.J. Sanchez, L.F. Gutierrez, 2009-12-03 Process engineering can potentially provide the means to develop economically viable and environmentally friendly technologies for the production of fuel ethanol Focusing on a key tool of process engineering Process Synthesis for Fuel Ethanol Production is a comprehensive guide to the design and analysis of the most advanced

technologies for fuel

Alchemical Libraries Almanack ,2006

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