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process works.

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Furthermore, optimization of bioethanol production process from sugarcane is still possible, and significant reduction of energy consumption can be achieved through the optimization of fermentation

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and distillation processes.

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Distillation is the most widely used separation operation in chemical

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industries; the great consumption of energy is the major disadvantage of this process that is unable to reach a high level of purity of bioethanol. The objective of this study is to model and to optimize the distillation column, by testing the effect of impurities.

Modeling and optimization of

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distillation to produce ...

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To improve the efficiency of bioethanol production, an advanced process was required to extract ethanol from solid-state fermented feedstock. With regard

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to the characteristics of no fluidity of ...

(PDF) Optimization of Continuous Solid-State Distillation ...

For deeper insights and meaningful conclusions, this study investigates multi-objective optimization of DVP process for bioethanol recovery and dehydration, using multi-objective differential...

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Process Development and Optimization of Bioethanol ...

Abstract. The large-scale production of bioethanol fuel requires energy-demanding distillation steps to concentrate the diluted product streams from the fermentation step and to overcome the azeotropic behavior of the

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ethanol-water mixture. The conventional separation sequence consists of three distillation columns performing several tasks with high energy penalties: preconcentration of ethanol (PDC), extractive distillation (EDC) and solvent recovery (SRC).

Optimal Economic Design of an

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Extractive Distillation ...

bioethanol can significantly reduce emissions of air pollutants [5].

Distillation is the separation technique most frequently used in the chemical industry for purification of bioethanol [6]. The growing demand for high value-added chemical and biochemicals contained in small mixing volumes as

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well as

Optimization the Continuous Distillation Process of an ...

The extractive distillation of ethanol using glycerol as entrainer is studied in order to find its optimal design and operating conditions. The optimization is formulated as a mixed integer nonlinear

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programming (MINLP) problem. The discrete variables determine the number of stages of the columns and their feed stage locations.

Optimization of the Design and Operation of an Extractive ...

The economic optimization of a distillation column involves the selection

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of the number of trays and feed location, as well as the operating conditions to minimize the total investment and operating cost.

Optimization of Distillation Processes.

To improve the efficiency of bioethanol production, an advanced process was

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required to extract ethanol from solid-state fermented feedstock. With regard to the characteristics of no fluidity of solid biomass, a continuous solid-state distillation (CSSD) column was designed with a proprietary rotary baffle structure and discharging system.

Optimization of Continuous Solid-

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State Distillation ...

Ethanol production, purification, and analysis techniques: a review Abstract
World ethanol production rose to nearly 13.5 billion gallon in 2006. Ethanol has been part of alcoholic beverages for long time, but its application has expanded much beyond that during the 20th Century. Much of the recent interest is in

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the use of ethanol as fuel.

Ethanol production, purification, and analysis techniques ...

Continuous ethanol production with efficiency, optimum plant design, process dynamics, and control were studied in a continuous process to minimize the loss of plant utility and

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prevent possible ethanol production failure, which can sometimes occur in real life. A Gantt chart was used for continuous production to obtain ethanol every 24.5 hours.

Heat Integration and Batch Scheduling of Optimal ...

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conclusions, this study investigates multi-objective optimization of DVP process for bioethanol recovery and dehydration, using multi-objective differential evolution. Pareto-optimal solutions for minimizing GHG and cost of manufacture are presented and discussed.

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Process Development and Optimization of Bioethanol ...

Due to the fact that the distillation is a standard technology used for continuous separation of ethanol from mixtures, the optimization of this process section is of high importance. A reduction of the energy requirements in this process section will benefit the overall process

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efficiency.

Simulation of the downstream processing in the ethanol ...

This high consumption of energy is the major disadvantage in a typical bioethanol distillation process.

Consequently, the optimization and design of new configurations are part of

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challenges faced by process engineering. This work aimed to investigate the distillation process of a Moroccan distillery for ethanol production in order to optimize the operating energy and cost. The modeling and simulation of... CONTINUE READING

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Simulation and Optimization of Moroccan Industrial Plant ...

A novel design of a wheat-based biorefinery for bioethanol production, including wheat milling, gluten extraction as byproduct, fungal submerged fermentation for enzyme production, starch hydrolysis, fungal biomass autolysis for nutrient

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regeneration, yeast fermentation with recycling integrated with a pervaporation membrane for ethanol concentration, and fuel-grade ethanol purification by ...

Process design and optimization of novel wheat-based ...

process can be optimized through

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several design and operational variables such as number of total trays (N_T), feed tray location (N_F), recycle tray location (N_R), and reflux ratio (R_R) (Liang et al., 2017). The sequential iterative and the heuristic optimization are the methods most commonly adopted to optimize the PSD process described in the open

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