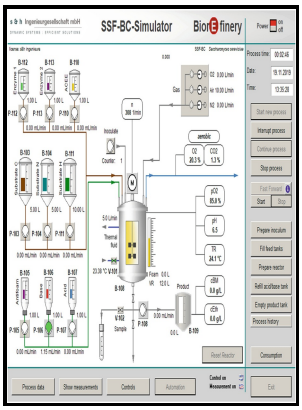
Investigation of control strategies for batch and continuous distillation columns, using a digital computer

- - Control strategies analysis for a batch distillation column with experimental testing



Description: -
-investigation of control strategies for batch and continuous distillation columns, using a digital computer
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Notes: Thesis(Ph.D.) - Loughborough University of Technology 1970.
This edition was published in 1970

Tags: #Control #System #Design

Module 3.1: Control of Distillation Columns

If the batch process step is not the first step in the batch process, it typically would be initiated automatically when the previous step reached its endpoint.

US5132918A

For example, consider a continuously operating trayed distillation column which has an inventory of boiling liquid in its base and on each tray in the column. Process Model Based Engineering , Computers Chemical Engineering, vol. Batch operations are of a start- stop nature; however, startup and shutdown of continuous plants must be treated in a similar fashion.

Module 3.1: Control of Distillation Columns

Pressure control on condenser cooling water is shown; of course any other pressure control scheme would be acceptable. Flooded Condenser - 1 Figure 4 shows the classic flooded condenser approach.

US3294648A

A key aspect of the book is the frequent use of real world design examples drawn directly from the authors' industrial experience.

Dynamics and Control of Chemical Reactors and Distillation Columns

Description This invention relates to the field of automated control of a fractional distillation process. Chemical Engineering Communications 1993;119: 1—21.

US5058043A

Due to errors in measurements and computing, signal '97 will be slightly altered by signal 119 to always produce the exactdistillate flow setpoint 99 required.

Control System Design

The acids are designated as C- 14 Myristic , C-16 Palmitic , C-18 Oleic , and C-20 Sterric and the unsaps as L-1 through L-5 with molecular weights assigned as 239, 290, 312, 36 37 318, and 332, respectively. With time the temperatures drift upward, except for T1 which was maintained by manipulating the reflux L0.

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