พิมพ์ต้นฉบับบทคัดย่อวิทยานิพนธ์ภายในกรอบสีเขียวนี้เพียงแผ่นเดียว

C616898 : MAJOR CHEMICAL ENGINEERING

KEY WORD: DISTILLATION CONTROL / EXPERT SYSTEM

PHUSADEE PUNSAKSIRI : A KNOWLEDGE-BASED SYSTEM FOR DISTILLATION CONTROL SYSTEM DESIGN. THESIS ADVISOR : DR. MONTREE WONGSRI, 288 pp., ISBN 974-636-620-3

A Knowledge-based system for Distillation Control System Design is built on Smart Elements Version 2.0 to assist process control engineers in the choice of appropriate control methods to control product impurities of columns, pressure controls, reboiler controls, level controls and types of condenser and reboiler that is suitable to the user columns. These methods using the class-object hierarchy of the frame-based technology and the forward chaining rule base system. This program comprises of 150 rules dealing with question handling, types of column that have number of valuable products, reflux ratio, specification of products, operated pressure, components of mixtures, etc. This program communicates with a user via mouse, iconic labels, menus and input fields. Other important features of the software are question handler. This program also incoporates other information such as diagrams and figures of the process, the typical control methods and the types of condensers and reboilers.

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