

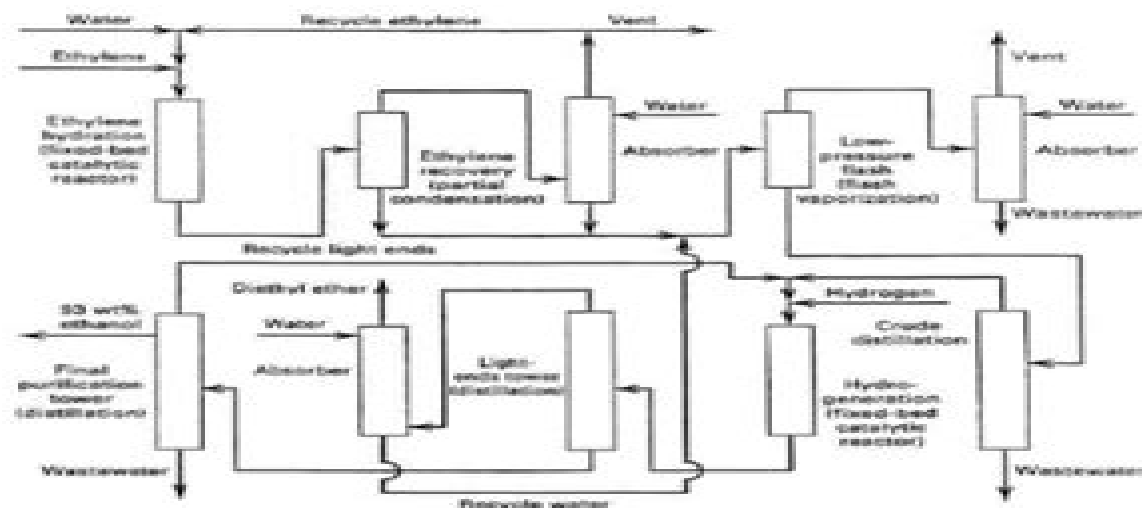
Exercise 1.1

Subject: Separation operations in an ethanol process.

Given: Flow sheet for the process.

Find: Operation in each block of the process

Analysis: The flow sheet is as follows:



Starting from the left side of the top row, number the equipment blocks 1-5. On the next row, number them from right to left as 6-10.

1. The feed to the reactor contains ethylene, propylene, and water. The very incomplete reaction effluent of gas contains, in addition: ethyl alcohol, diethyl ether, acetaldehyde, and isopropyl alcohol.
2. Most of the chemicals, except most of the ethylene, are condensed and sent to item 4. The remaining gas is sent to 3.
3. The ethylene is recovered from the small quantity of other chemicals in the absorber. Most of the ethylene is recycled to 1. The water and other chemicals are sent to 4.
4. Remaining ethylene is flashed off and sent to 5. The liquid contains most of the hydrocarbons and is sent to 6.

Seader Separation Process Principles Problems Solution Manual

J. D. Seader, Ernest J. Henley



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Separation Process Principles with Applications Using Process Simulators J. D. Seader, Ernest J. Henley, D. Keith Roper, 2016 Covers the key topics in computer organization and embedded systems This title presents hardware design principles and shows how hardware design is influenced by the requirements of software It explains the main principles supported by examples drawn from commercially available processors

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

Separation Process Principles J. D. Seader, Ernest J. Henley, 1998-01-23 This book examines rate based and equilibrium based approaches to separation operations It describes the fundamentals of all separation operations of commercial interest and includes theory and application examples in each chapter as well as over 600 exercises

Chemical Engineering, 1999 *Forthcoming Books* Rose Arny, 2000 **Chemical Engineering Education**, 1997

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Scientific and Technical Books and Serials in Print, 1984 *Separation Process Principles* Ernest J. Henley, J. D. Seader, D. Keith Roper, 2011 Completely rewritten to enhance clarity this third edition provides engineers with a strong understanding of the field With the help of an additional co author the text presents new information on bioseparations throughout the chapters A new chapter on mechanical separations covers settling filtration and centrifugation including mechanical separations in biotechnology and cell lysis Boxes help highlight fundamental equations Numerous new examples and exercises are integrated throughout as well In addition frequent references are made to the software products and simulators that will help engineers find the solutions they need

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