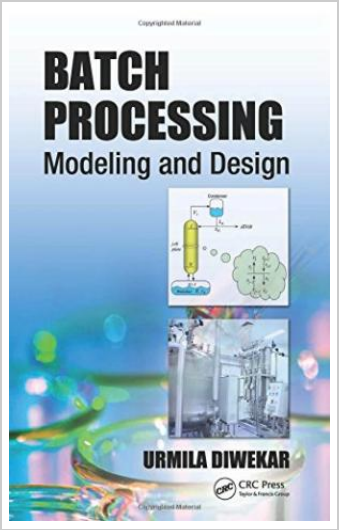

Batch Processing Modeling and Design

By Urmila Diwekar

CRC Press. Hardcover. Book Condition: New. Hardcover. 268 pages. Dimensions: 9.2in. x 6.2in. x 0.8in.Although batch processing has existed for a long time, designing these processes and unit operations has been considered an onerous task that required computational efforts. Design of these processes is made more complex because of the time dependent nature of the process and the allowable flexibility. More often than not, every unit encounters optimal control problems. Therefore, traditional design books have not covered batch processing in detail. Filling this void, Batch Processing: Modeling and Design describes various unit operations in batch and bio-processing as well as design methods for these units. Topics include: Batch distillation operating modes and configurations Batch absorption operations based on the solubility difference Batch adsorption based on differential affinity of various soluble molecules to solid absorbents Batch chromatography for measuring a wide variety of thermodynamic, kinetic, and physico-chemical properties Batch crystallization where a phase is used to find the supersaturation at which point material crystallizes Batch drying that stresses the phase diagram of water to describe this operation Batch filtration using a porous medium or screen to separate solids from liquids Batch centrifugation where centrifugal force is used for separation Batch processes...

Reviews

This publication will never be effortless to get started on reading through but very fun to read. It is actually loaded with knowledge and wisdom You will not truly feel monotony at anytime of the time (that's what catalogues are for about in the event you check with me).

-- ***Marlin Bergstrom***

I just started out looking at this ebook. This can be for those who statte there had not been a worthy of reading through. You can expect to like the way the blogger publish this ebook.

-- ***Dr. Freddie Greenholt Jr.***