

A First Course on Kinetics and Reaction Engineering

Unit 28. Choosing a Reactor Type

Definitions

commodity chemical - a reagent that is produced in very high volume and sells for a relatively low price.
specialty chemical - a reagent for which the market is small leading to low production rates and relatively high prices

Nomenclature

$S_{D/U}$ instantaneous selectivity parameter for parallel reactions

k_i rate coefficient for the reaction that forms species i

r_i rate of the reaction that forms species i

Equations

$$S_{D/U} = \frac{r_D}{r_U} \quad (28.1)$$