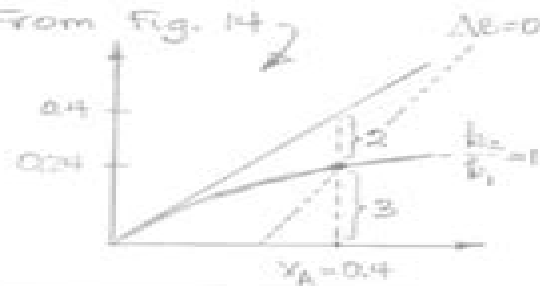


8.9

From Fig. 14



Thus

$$\text{given} \rightarrow \left. \begin{aligned} \frac{C_A}{C_{A0}} &= 0.6 \\ \frac{C_B}{C_{B0}} &= 0.24 \\ \frac{C_C}{C_{C0}} &= 0.16 \\ \frac{C_D}{C_{D0}} &= 0.42 \end{aligned} \right\} \frac{k_2}{k_1} = 1$$

8.11

Evaluate k_1 and k_2 at various pH.

pH	k_1	k_2
2	3	11
4	5	7
6	7	11

From the table:

Operate at pH = 6 because
it gives the highest k_1 and the highest k_2

8.13

Assume that $C_{A0} = 100$. Then

a) If you have produced lots of S & U, and if the second step reactions are relatively very slow, then the first step reactions are complete. So

$$C_A = 0 \quad C_R = 20 \quad C_S = 20 \quad C_T = 20 \quad \text{and} \quad C_U = 40 \quad \leftarrow \text{a)}$$

b) The second step reactions are very fast, so any R formed has transformed into S and U. So $C_{R \text{ formed}} = 20 + 40 = 60$

Thus $C_T = \frac{1}{2} C_{R \text{ formed}} = 30$. So

$$C_A = 10 \quad C_R = 0 \quad C_S = 20 \quad C_T = 30 \quad \text{and} \quad C_U = 40 \quad \leftarrow \text{b)}$$

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Jessica J Manson



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Fluidization Engineering D. Kunii, Octave Levenspiel, 2013-10-22 Fluidization Engineering Second Edition expands on its original scope to encompass these new areas and introduces reactor models specifically for these contacting regimes Completely revised and updated it is essentially a new book Its aim is to distill from the thousands of studies those particular developments that are pertinent for the engineer concerned with predictive methods for the designer and for the user and potential user of fluidized beds Covers the recent advances in the field of fluidization Presents the studies of developments necessary to the engineers designers and users of fluidized beds Chemical Reaction Engineering Octave

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web novartis ist asthma erblich als häufiger risikofaktor für asthma gerade bei kindern gilt das verstärkte auftreten in der familie ist ein elternteil asthmatiker liegt das risiko bei rund 25 prozent sind vater und mutter betroffen erhöht es sich auf mehr als 50 prozent

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web noun the place at which two things or separate parts of one thing are joined or united either rigidly or in such a way as to permit motion juncture a connection between pieces of wood metal or the like often reinforced with nails screws or glue anatomy zoology

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web apr 1 2023 a ball and socket joint is an articulation between the rounded head of one bone ball and the concavity of another socket this type of joint is multiaxial it permits flexion extension abduction adduction and rotation the only two ball and socket joints of the body are the hips and the shoulder glenohumeral

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