

### Chapter 3

#### Problem 3.1



a.) Equilibrium approach

\* r values are the same as k values all are rate constants

$$r_1 (S)(E) = r_2 (ES)_1 \quad (1)$$

$$r_3 (ES)_1 = r_4 (ES)_2 \quad (2)$$

$$(E_0) = (E) + (ES)_1 + (ES)_2 \quad (3)$$

$$\text{from (2)} \quad (ES)_1 = \frac{r_4}{r_3} (ES)_2 \quad (4)$$

$$\text{from (1) + (4)} \quad (E) = \frac{r_2 r_4}{r_1 r_3} \frac{(ES)_2}{(S)} \quad (5)$$

Substitute (4) and (5) into (3):

$$(E_0) = \left( \frac{r_2 r_4 + r_1 r_4 (S) + r_1 r_3 (S)}{r_1 r_3 (S)} \right) (ES)_2$$

$$\therefore (ES)_2 = \frac{r_1 r_3 (E_0)(S)}{r_2 r_4 + r_1 r_4 (S) + r_1 r_3 (S)}$$

$$\text{rate} = \frac{r_5 E_0 S}{K_m2 (K_m2 + S) + S} \quad \text{where } K_m1 = \frac{r_2}{r_1}, \quad K_m2 = \frac{r_4}{r_3}$$

b.) Quasi-steady-state approach

$$\frac{d(ES)_1}{dt} = r_1 (E)(S) - r_2 (ES)_1 + r_4 (ES)_2 - r_3 (ES)_1 \approx 0 \quad (6)$$

$$\frac{d(ES)_2}{dt} = r_3 (ES)_1 - r_4 (ES)_2 - r_5 (ES)_2 \approx 0 \quad (7)$$

$$\text{from (7)} \quad (ES)_1 = \frac{r_4 + r_5}{r_3} (ES)_2 \quad (8)$$

$$\text{from (6) + (8): } (E) = \left( \frac{r_2 r_4 + r_2 r_5 + r_1 r_3}{r_1 r_3 (S)} \right) (ES)_2 \quad (9)$$

substitute (8) and (9) into (3):

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**Rose Army**



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**Solutions Manual** Pauline M. Doran,1997      *Forthcoming Books* Rose Arny,2002      **Books in Print** ,1991

**Genetic Engineering News** ,2006      **Solutions Manual to Biochemical Engineering** Harvey W. Blanch,Douglas S. Clark,1995      **Horizons in Bioprocess Engineering** Ravindra Pogaku,2019-10-12 This book is divided into four parts that outline the use of science and technology for applications pertaining to chemical and bioprocess engineering The book endeavors to help academia researchers and practitioners to use the principles and tools of Chemical and Bioprocess Engineering in a pertinent way while attempting to point out the novel thoughts associated with the brain storming concepts encountered As an example the ability to use case studies appropriately is more important to most practitioners

**Bioprocess Engineering** Shijie Liu,2012-11-07 Bioprocess Engineering involves the design and development of equipment and processes for the manufacturing of products such as food feed pharmaceuticals nutraceuticals chemicals and polymers and paper from biological materials It also deals with studying various biotechnological processes Bioprocess Kinetics and Systems Engineering first of its kind contains systematic and comprehensive content on bioprocess kinetics bioprocess systems sustainability and reaction engineering Dr Shijie Liu reviews the relevant fundamentals of chemical kinetics including batch and continuous reactors biochemistry microbiology molecular biology reaction engineering and bioprocess systems engineering introducing key principles that enable bioprocess engineers to engage in the analysis optimization design and consistent control over biological and chemical transformations The quantitative treatment of bioprocesses is the central theme of this book while more advanced techniques and applications are covered with some depth Many theoretical derivations and simplifications are used to demonstrate how empirical kinetic models are applicable to complicated bioprocess systems Contains extensive illustrative drawings which make the understanding of the subject easy Contains worked examples of the various process parameters their significance and their specific practical use Provides the theory of bioprocess kinetics from simple concepts to complex metabolic pathways Incorporates sustainability concepts into the various bioprocesses

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