

ENQ410035 – Kinetics of Chemical Processes

Kinetics of homogeneous reactions. Kinetics of heterogeneous reactions. Catalyst deactivation and regeneration kinetics. External diffusive effects in heterogeneous reactions. Internal diffusive effects on porous solids. Kinetics of multicomponent systems - Application to Atmospheric Chemistry.

Bibliografia:

Fogler HS, Elements of Chemical Reaction Engineering, Prentice Hall, New Jersey, 1992.

Froment, G.F.; Bischoff, K.B., Chemical Reactor Analysis and Design, John Wiley & Sons, New York, 1990

Boudart, M. Kinetics of Chemical Processes, Butterworth-Heinemann, Stoneham, MA, 1991.

Steinfeld, J.I.; Francisco, J.S.; Hase, W.L. Chemical Kinetics and Dynamics, Prentice. 1998.

Levenspiel, O. Engenharia das Reações Químicas. Ed Edgard Blücher Ltda. 2000.