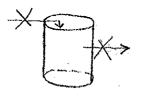
GENERAL CLASSIFICATION OF REACTORS ENV 5666 & CGN 4930 (ST) – Water Quality Management

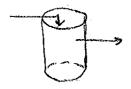
1) Material Transfer Mode

a) Batch (or closed over the Δt of interest)



Materials are added at t = 0

b) Flow (or open over the Δt of interest)



2) By Level of Mixing



CSTR

Completely Stirred (∞ dispersion)

PFR

Plug Flow reactor (0 dispersion)

3) By Number of Involved Phases

- a) Homogenous (e.g., only liquids)
- b) Heterogeneous (e.g., gas and liquid)

3) Catalyst Presence

- a) Non-catalytic
- b) Catalytic

5) Others (e.g., combinations of the above thereof)