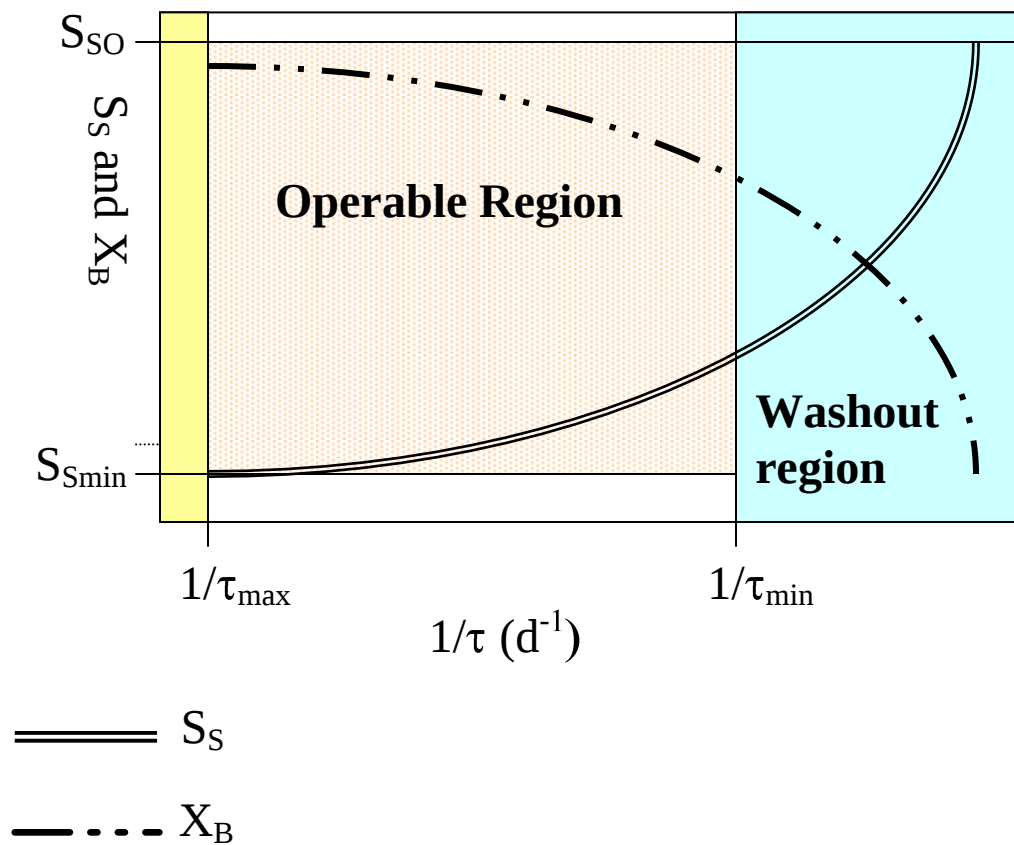
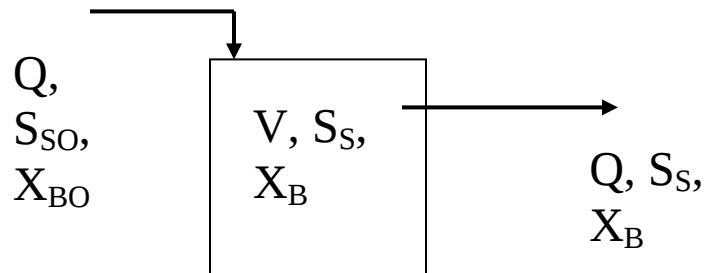


CHEMOSTAT IS A CSTR FOR GROWING BACTERIA CELLS



Monod Relation:
steady-state cell mass balance

Out = Generated

$$QX_B = Vr_{XB}$$

$$r_{XB} = \mu X_B \text{ and } \tau = V/Q$$

$$X_B = \tau \mu X_B$$

$\mu = 1/\tau$ (where $1/\tau$ is "dilution rate")