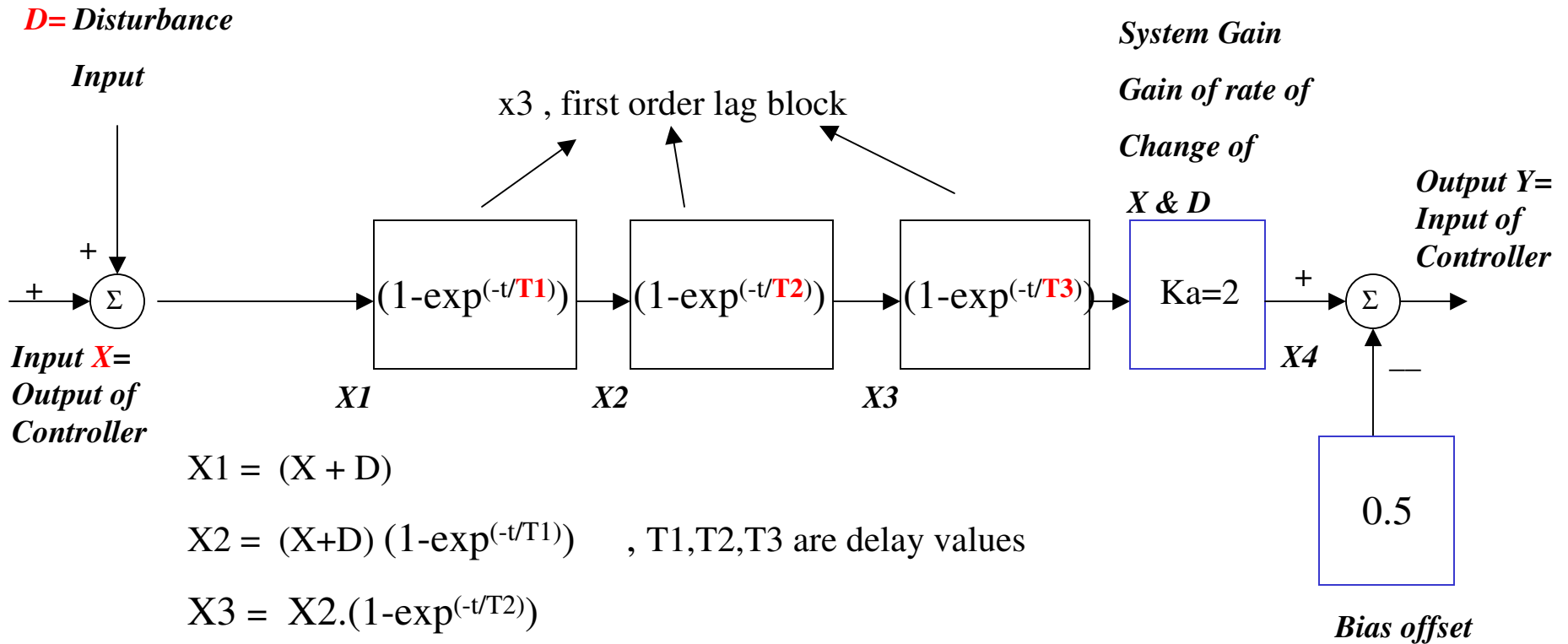


SIMULATOR



$$X1 = (X + D)$$

$$X2 = (X+D) (1-\exp(-t/T1)) \quad , T1,T2,T3 \text{ are delay values}$$

$$X3 = X2.(1-\exp(-t/T2))$$

$$X4 = X3. Ka.(1-\exp(-t/T3)), Ka \text{ rate of Change of input gain}$$

$$Y = X4 - 0.5, \text{ Deduct } 50 \text{ OR } 3V$$

X,D,T1,T2,T3 are set by hardware, set by software

t = instantaneous time value, when X and D are changed, may use AD sampling time period , $t = 0 \dots \infty$