

IOS21053

1.)

Umpan

$$F_1 = 100 \text{ kg/jam}$$

$$A = 0,5$$

$$B = 0,5$$

(D₁)

$$\text{Dislat, } D_2 = 19 \text{ kg/s}$$

$$A = 0,9$$

$$B = 0,1$$

Bottom, B₁ = 51

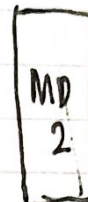
$$A = 0,4$$

$$B = 0,89$$

$$F_3 = 30 \text{ kg/s}$$

$$A = 0,3$$

$$B = 0,7$$



$$D_2 = 30 \text{ kg/s}$$

$$A = 0,4$$

$$B = 0,6$$

$$F_2 = B_1$$

$$A = 0,18$$

$$B = 0,62$$

$$B_2 = 51$$

$$A = 0,057$$

$$B = 0,943$$

→ Analisis NM total disekitar keseluruhan alat

$$F_1 + F_3 = D_1 + D_2 + B_2$$

$$100 + 30 = 49 + 30 + B_2$$

$$B_2 = 51$$

→ Analisis NM A disekitar keseluruhan alat

$$X_A F_1 + X_A F_3 = X_A D_1 + X_A D_2 + X_A B_2$$

$$0,5 \cdot 100 + 0,3 \cdot 30 = 0,9 \cdot 49 + 0,4 \cdot 30 + X_A \cdot 51$$

$$X_A = 0,057$$

$$A = 2,9, \quad B = 48,1$$

→ Analisis NM disekitar MD 2

$$F_2 = D_2 + B_2$$

$$F_2 = 30 + 51$$

$$F_2 = 81$$

→ Analisis NM A disekitar MD 2

$$X_A F_2 = X_A D_2 + X_A B_2$$

$$X_A \cdot 81 = 0,4 \cdot 30 + 0,057 \cdot 51$$

$$X_A = 0,18$$

$$A = 14,58, \quad B = 66,42$$

→ Analisis NM total disolutor mixer

$$B_1 + F_3 = F_2$$

$$B_1 + 30 = 81$$

$$B_1 = 51$$

→ Analisis NMA disolutor mixer

$$X_A B_1 + X_A F_3 = X_A F_2$$

$$X_A 51 + 0,3 \cdot 30 = 0,8 \cdot 81$$

$$X_A = 0,11$$

$$A = 5,61, \quad B = 45,39$$

Komponen	F ₁	D ₁	B ₁	F ₃	F ₂	D ₂	B ₂
A	50	44,1	5,61	9	14,58	12	2,9
B	50	4,9	45,39	21	66,42	18	48,1
Z	100	49	51	30	81	30	51