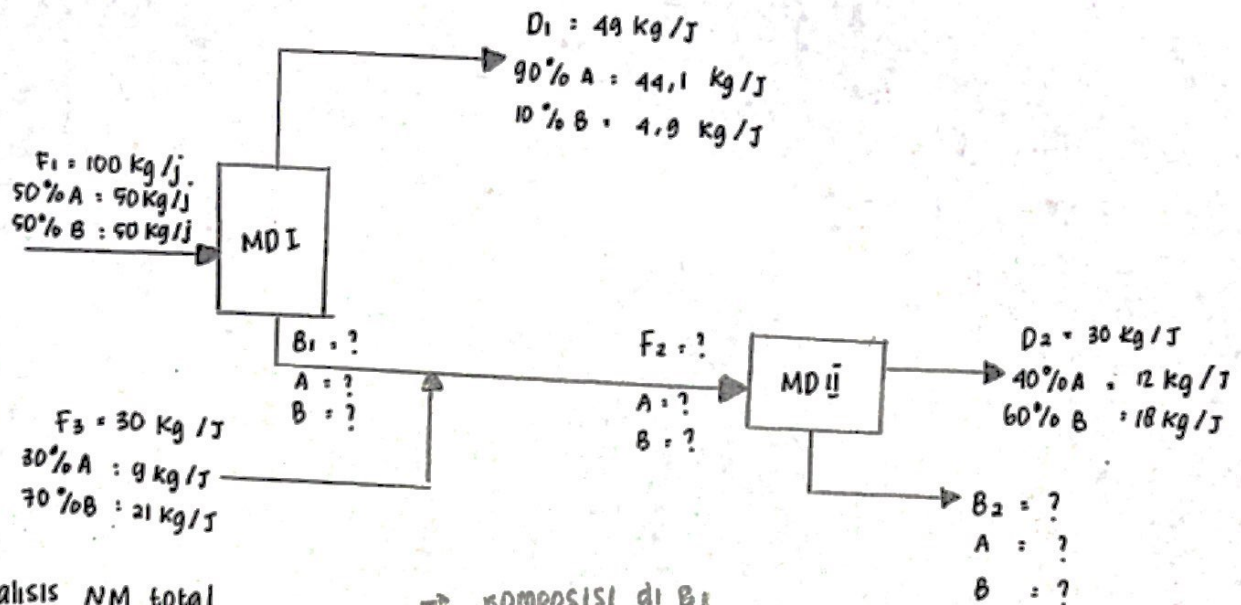


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Latihan I



→ Analisis NM total

$$F_1 + F_3 = D_1 + D_2 + B_2$$
$$100 + 30 = 49 + 30 + B_2$$
$$B_2 = 51 \text{ kg/J}$$

•) $F_2 = D_2 + B_2$

$$F_2 = 30 + 51$$
$$F_2 = 81 \text{ kg/J}$$

•) $B_1 = F_2 - F_3$

$$B_1 = 81 - 30$$
$$B_1 = 51 \text{ kg/J}$$

→ komposisi di B_1

• A → $F_1 \cdot X_A = D_1 \cdot X_A + B_1 \cdot X_A$

$$100(0,5) = 49 \cdot X_A + 51 \cdot X_A$$
$$X_A = 0,12$$
$$A = 0,12 \times 51 = 6,12 \text{ kg/J}$$

• B → $F_1 \cdot X_B = D_1 \cdot X_B + B_1 \cdot X_B$

$$50 = 4,9 + 51(X_B)$$
$$X_B = 0,88$$
$$B = 0,88 \times 51 = 44,88 \text{ kg/J}$$

→ komposisi di F_2

• A → $B_1 \cdot X_A + F_3 \cdot X_A = F_2 \cdot X_A$

$$6,12 + 9 = 81 \cdot X_A$$
$$X_A = 0,10$$
$$A = 0,10 \cdot 81 = 8,1 \text{ kg/J}$$

• B → $B_1 \cdot X_B + F_3 \cdot X_B = F_2 \cdot X_B$

$$44,88 + 21 = 81 \cdot X_B$$
$$X_B = 0,81$$
$$B = 0,81 \cdot 81 = 65,61 \text{ kg/J}$$

•) komposisi di B₂

$$A \rightarrow F_2 \cdot X_A = D_2 \cdot X_A + B_2 \cdot X_A$$

$$15,39 = 12 + 51 \cdot X_A$$

$$X_A = 0,07$$

$$A = 0,07 \cdot 3,97 \text{ Kg / J}$$

$$B \rightarrow F_2 \cdot X_B = D_2 \cdot X_B + B_2 \cdot X_B$$

$$65,61 = 18 + 51 \cdot X_B$$

$$X_B = 0,93$$

$$B = 47,43 \text{ Kg / J}$$

	F ₁	D ₁ (Kg/J)	F ₃ (Kg/J)	B ₁ (Kg/J)	F ₂ (Kg/J)	D ₂ (Kg/J)	B ₂ (Kg/J)
A	50 Kg / J	44,1	9	6,12	15,39	12	3,97
B	50 Kg / J	4,9	21	44,88	65,61	18	47,43
Σ	100 Kg / J	49	30	51	81	30	18