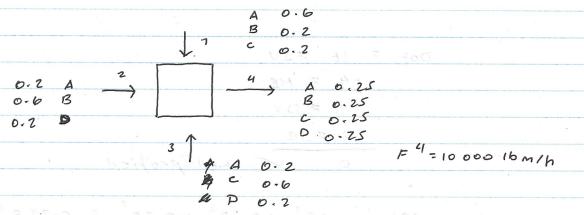
2-16		6.0 A			
a)		Feed	A1100	15 (wt °10)	's y d'
	components	1	2	3	Destred
	25.0 AA	60	20	20	25
	TO B	20	60	0	25
	25-0 0	20	0	60	A 8 25
- è -	D	0	20	20	25
	yield 10 000	16 m / h 0	- de	riced alloy	
		1 -	A B	0.6	

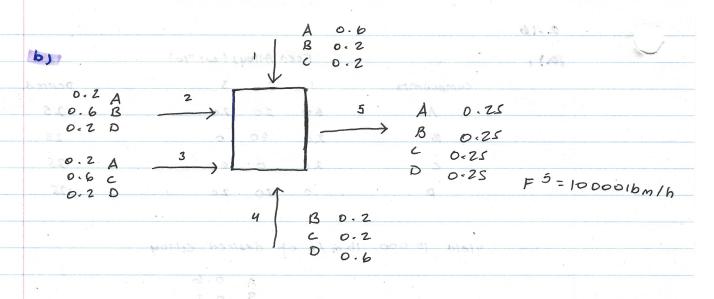


by presenting a contradiction

The How rates are F' = 880.281bm/h  $F^2 = 4401.411bm/h$  $F^3 = 4401.411bm/h$ 

However, by the conservation of man, there must som to  $F^{4}$ .

We see that  $F' + F^{2} + F^{3} = 9683$  to  $16m/h \neq 1000016m/h$ The required conditions are not met.



(A) 
$$0.6F^{1} + 0.2F^{2} + 0.2F^{3} = 0.25F^{5}$$

$$(0) \quad 0.2F^2 + 0.2F^3 + 0.6F^4 = 0.25F^5$$

-> from MATLAB, the flow rates are

DOF = 
$$16 \# SV$$
 (SR)  $\times 8^5 = \times c^5$ 

$$- 4 \# MB$$

$$- 10 \# SSV$$

$$- 1 \# SR$$

$$- underspecified$$

- sine we have I degree of freedom, lets appoint F = 0

(A) 
$$0.6F' + 0.2F^2 + 0.2F^3 = 0.4F^5$$

(A) 
$$0.6F' + 0.2F^2 + 0.2F^3 = 0.4F^5$$

(0) 
$$0.2F^{2} + 0.2F^{3} + 2 \times_{8}^{5} F^{5} = (1-0.4) F^{5}$$

Check: F'+F2 +F3+ F4 = 5000 + 2.2300 +0

ine revale to day to produce lette appeals

\$ 12 2 3 3 3 4 1 3 5 2 CO

0 = 2 3 5 7 = 2 3 3 0 4 1 3 2 3 (2)

(c) 625 + 065 - xe 5 5 5 0

ose to see the second