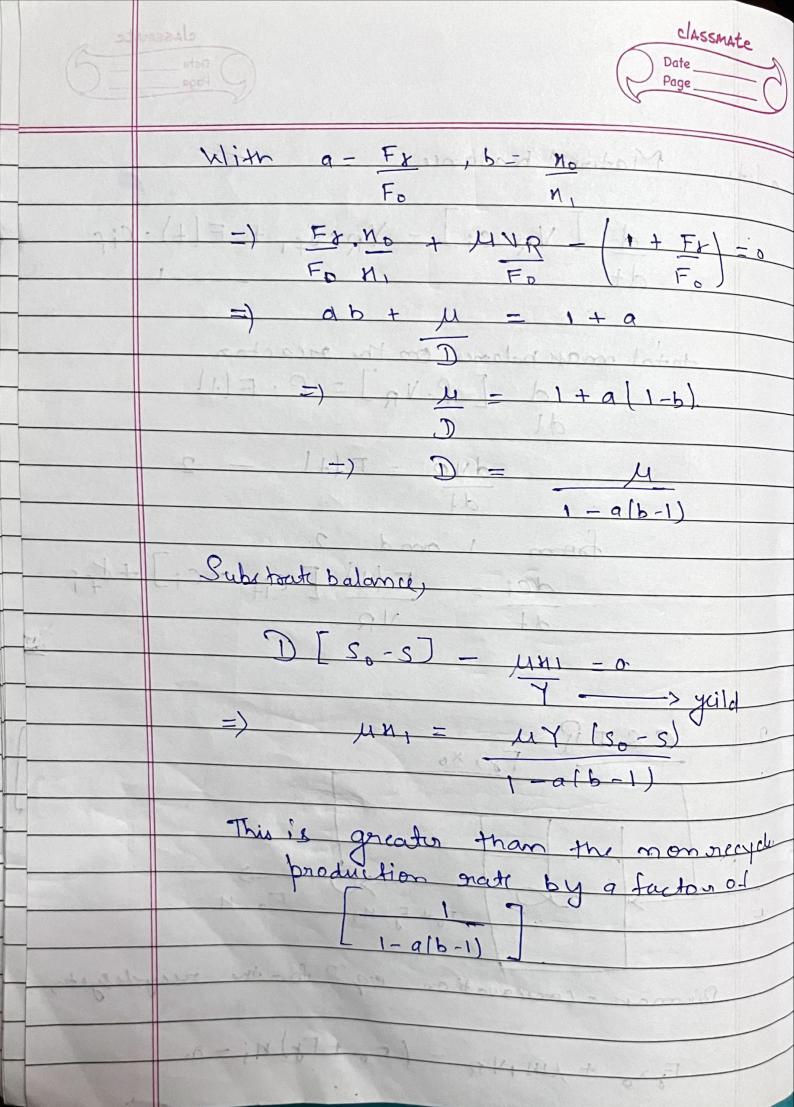


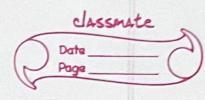
after Material balance, d NR.C: = NR. 8f, + F(t). Cif total may balance on the oreactor 11 - 1d [P-VR] = P. F(41 dup = F(+1 - 2 dc; = F(+) [cif = ci] + ti 0-1111 - [2-2] P estR F8, xo

Fot For M. For M.

Biomass - consequation e.g. for the recyclesystem

Fxxo + MNINR - (Fo + Fx) Ni = 0.





if we assum that cell on the film at the residual have come. He which is - Con tant. in such situation continue - reactor may balance takes general form, DN= hu + nt ut D(80-5) = 1 un + 1 ur nf. I yild factor < Specific growth in the film natin the film Fg = 0.231/s Fg = 8.91 min po2 - 0 - 2099 atm p = 0.2985 R = 0.082 Latm k-1 FgPo2 RYR To2

