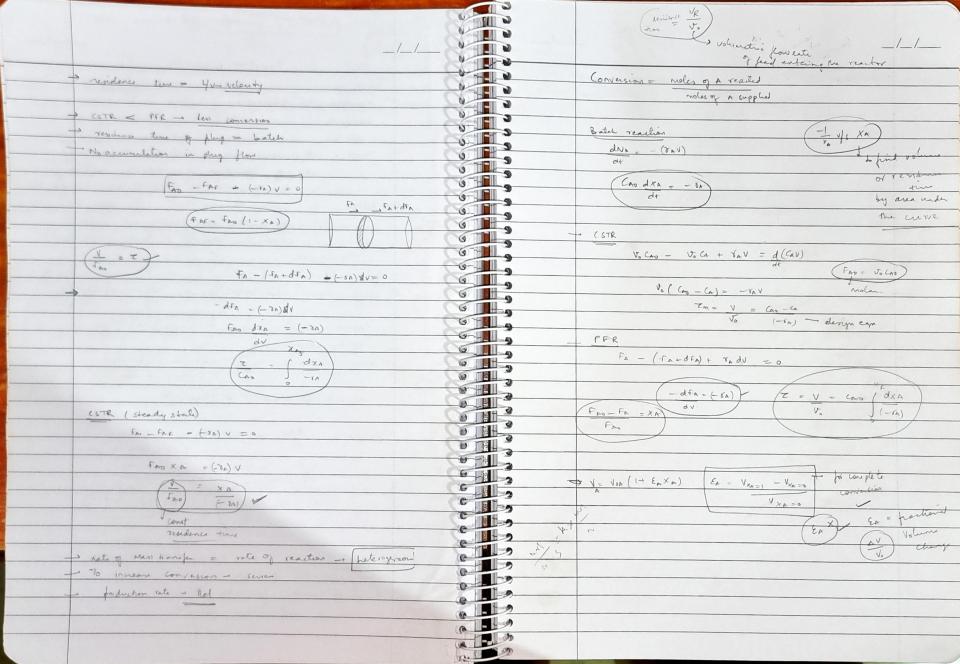
(CSTO - continuen/ batch) ??? _/_/_ Reaction engineering total time The reactant has spent how fast feasibility in she reactor some required · rate & rate of consumption of reactants a rate of formation of product Afterible - can know the minute details on like temp, presse Batch: We add the reactants and after the Completion of reaction she products are removed Continuous & continuous flow of reastants and products - residence time. time taken for the conversion - design parameter trately = tran + tenange + t discharge + telean large residence logas small residence time time to the softenwise long pipe were be required. isotherin required. I sput - out + gan - accumulation. XA = CAO - CA t = Con f dx A) (= V (1 + E + X A) . Phys flow : - each and every particle well spend some time on the plug flow recutor on try to mention flat value by people - mixing is not always god -17



Recycle Yeartor - to inchese myny in plug from Z = space time - Z = V/vo time required to process one O autocatalytic reaction - when product acts as catalyst reaction volume of the feed - designprimiter @ maintain isoftwarely - And of fine spent by the particle until it exits the R - returned 3 Promote certain selectivity of a product rector -> Performance of a reactor can be judged on he banis of -1/40 V/S x (area) - it will give an estimate about (E) and eventually (V) tow conversion - mixed - high conversion - plug FAO = FAO(1-XA) + (-XA) V FAO XA = (VA) V avy recidence time = space dins VLAO = CAO - Cay (- YA) CAOK Z - Dankohler number - n= order Grelates reaction time scale to 1 16 600 convection tells about Conversion Convective man transport DA CO.1 X CO 1