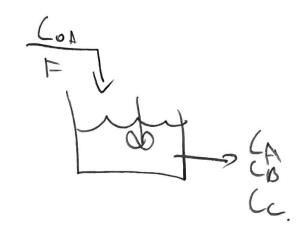
CSTR with reaction A-B & C Feel cortain Andr



Disturbue in COA at ±=>

Use Deviation Variable

Kearage and Solve for CAis): dCA F + VKA CA = F DCOA Kpt/Kp 1/2_A Laplace Transform: SCA' + 1(ZACA' = KPA DCOACS) 1st order expension CA = KPA (CASTI) DCOA(S) Revirge au Solve Ja Cc: dci + F+Vkc ci = ks cis 2 aplace Trasformi sci + 'trucci = KBCB Cc = Korce (Costi) Co

Need to solve for Co

Ke-verge and solve for Co: dico + FxVkB co = KACA + kece Laplace Transform: SCO + 120CB = KACA + KCCC Plus in expression for CA and Cc: CB(CBS+1) = KACOKPH DCOALS) + KECOKOCC CB Co (205+1 - KOKCOOC) = KAZOKPA DCOACS) CB (CCosti)(Ccsti) - KBKCZBZC) = KAZBKPA DCOASI

CB = (2/341)(20541)(CCS41) - (2/341) KBKC20CC D(OACS)

This is a third order expression

Cc' =	(TASHI) CEOSHIX TESHI) - (TASHI) KOKE TOTE DOSALI this is a 3rd order expression.
\$ U \$	e Syms variables and illuplace fraction in Metlass

Syms of the test kate kpt 5 % Define Symbolic Vars = 5 % Define transform variable. Vars.

ilaplace (Kpt Dea) of Find inverse deplace Transform for transform transfo