2018113012 Seposession production due to itself due to x NU tune type corte no regative autoriquelate the rate of 2 will have production (O(x7 kx2)) (O(y7 ky2) as we have an AND gare dz = B30(x>kx2)0(y>ky2) - X2 2 some for one with no WAR on y I me gream deabhe pre ether.

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DN and one might were alcocy ateric value 3 system without NAR John 39° terr. Si delay tor delay system without MAR. gos our syston to me con see Joon the figures, our system (with NAR on y) reaches od has a quicker response time honce occorros coorses the limit O(y>kyz) faster than the one without MAR. As we have a [AND) gave implemented the production of 2 begins only whon book input signals are 1. Thore is a delay as it takes some time for y to be produced >kyz. Note that there is no delay to OFF as if either one O(x7 kx2) or O(y) Ryz) 18 O that he fine. Switches of. .: NAR or y seauces delay in production of 2 and also allows more 2 to be produced as they switch off together.

Kushagna Agarwal 2018113012 82) show that the response time can vary with n sal) por a NAR system. dx = BK? - dx aisumption for strong auto reposee sion: $\left(\frac{k}{\lambda}\right)_{\lambda} >> 1$ dx 2 BK - dxn+1. ~otiones taking BK2 XX 2 - X(n+1)xdx2 da $\frac{da}{dx} = \frac{da}{dx} = \frac{da}{dx}$ en (a2/a1) 2: -x(nH) et

BK^- dx^+1 = BK e - d(n+1)+ xm1, BK (1-e-x(n+1)t) : X> (BK)/UH (1-6-404)+ /UH) calculating $\frac{4}{2}$ we $\frac{8}{2}$ at $\frac{4}{2}$ $\frac{2}{2}$ $\frac{2}{2$ 1-e-200+1)+ - Land te loge (1107 2 mm) A. 1609e (2ⁿ⁺¹-1 soporce time on inoceasing nt this toom A this team discreases de oceases de creaces : ty de creaces on moreasing n .: Sesponse timo decreases) with increasing n

various in production rates Robustness to variations in production roates (B) deports on the dependence of the steady stare (B) 0/2 contd) Or B. reaker the dependence, more robustig Own system. Heady stake value BK ZX = O. using stoong sepsession assumption. > X M/2 SAM BK Oct 20000 1000 Xst 2 (BK) or Xst = (B/nH) (K) as nivoceases dependence of Xxx on Boeduc [dro no d) xet is independent eg B] in production somes (B)



