

5. (x= 4x0 \frac{4}{4}= x Grimmumication notwork is described by the Bolaring graph topology

botel protoch discussed in Hony, such that He design SIAB (design K, C) according to the Allol disgramment ever S(t) -> p How to solve the objection Rusti equation presented in the slides; P= one (A, BR-18, B) -- MATIAB COMMAND ONE

- (1) Sove the SVFB problem applying therem 1
- (2) Bills the Grosdord multi-gents system vaith the SVFB distributed extel pothel
- (3) Simulate the system by assuming initially that  $x_{\hat{i}}(\phi) = \phi$  by  $\lambda = 1, 2, -., N$ φ = (φ)°x 20
- (4) Discuss the behavior of the Grasold much open system and check if the global disperment ever S(t) -> 4
- (5) In oder to better investigate the behavior of the controlled system you one invited to change the initial butter  $x_i(\phi)$  is to, ..., N and you have also to minestigate. The expert of the beginner of (how the sake of a object the paginner?)

- (Guld you modify the regione behowin by acting on a feel total loop closed (G) How on you modify the regerance bahowin dictated by the leader spent? oneumd the leade wate!)
- (7) In particula, Fig to design our whole what syllen such that isle the agents' sutputs one Gruaging (Bit > 0) to the some Enstant volve
- G, G) in order to onelyze the effect of the methods stantane on the (8) Fy to modify the stanting of the commission notwork (i.e. the graphs behaviour of the controlled multi-garts system