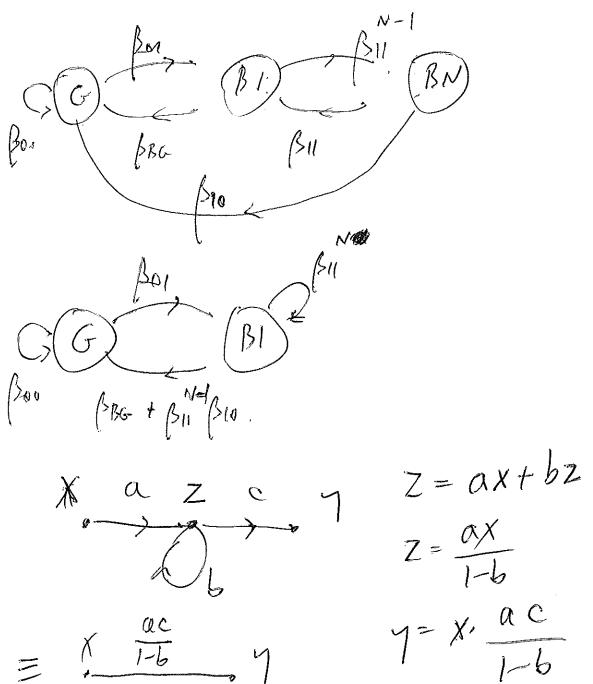
austher example: GBN with Kimited Ata Wurshous. if N emoveous hausmission, padut is discarded. \* wodel me med to keep memon of her munder at fijled transmissons: stale G: last to was correct 2 Bjit jette.
Bi: i-he consecutive failure failure failure to packet. \* semi-Markov chailn: P11(m )52 m BN S2 or Po152 p1/cm/52 p1/cm/52m Poo 5,52 P10(m) 5,52 P10(m) 5,52 m Pro(m) 5,152. (depends on probocal) vole: ne can assign the success me hore their to the transitions entering G or to those exiting G. let (500 (51, 52) = P10(m) 5,52 (3411 (51,52)= P11(m) 52 m (5 Moo (S1, 52) = Poo S152 1/3 Mo1 (S1, S2) = Poi S2 the can use flow-graph reduction techniques since (i) metres on different transitions are indep., and (1i) metrics an addition, and (1/i) the transform of the distribution of the sum is the product of the transforms.

Turifie, we have tent: A B1 B B2 C A B1B2 C  $\begin{cases} \gamma = \beta_1(X + \beta_2 \gamma) = 2 & \gamma = \frac{\beta_1 X}{1 - \beta_2} \end{cases}$ The following reductions can be 100 GG B1 BN BN BN BBG = \$10 + B1/B10 + ... + B1/B10 =  $= \beta_{10} \cdot \sum_{k=0}^{N-2} \beta_{11} = \beta_{10} \cdot \frac{1 - \beta_{11}}{1 - \beta_{11}}$ 



$$= \frac{x}{1-b} \frac{ac}{1-b}$$

$$= \frac{x}{1-b} \frac{ac}{1-b}$$

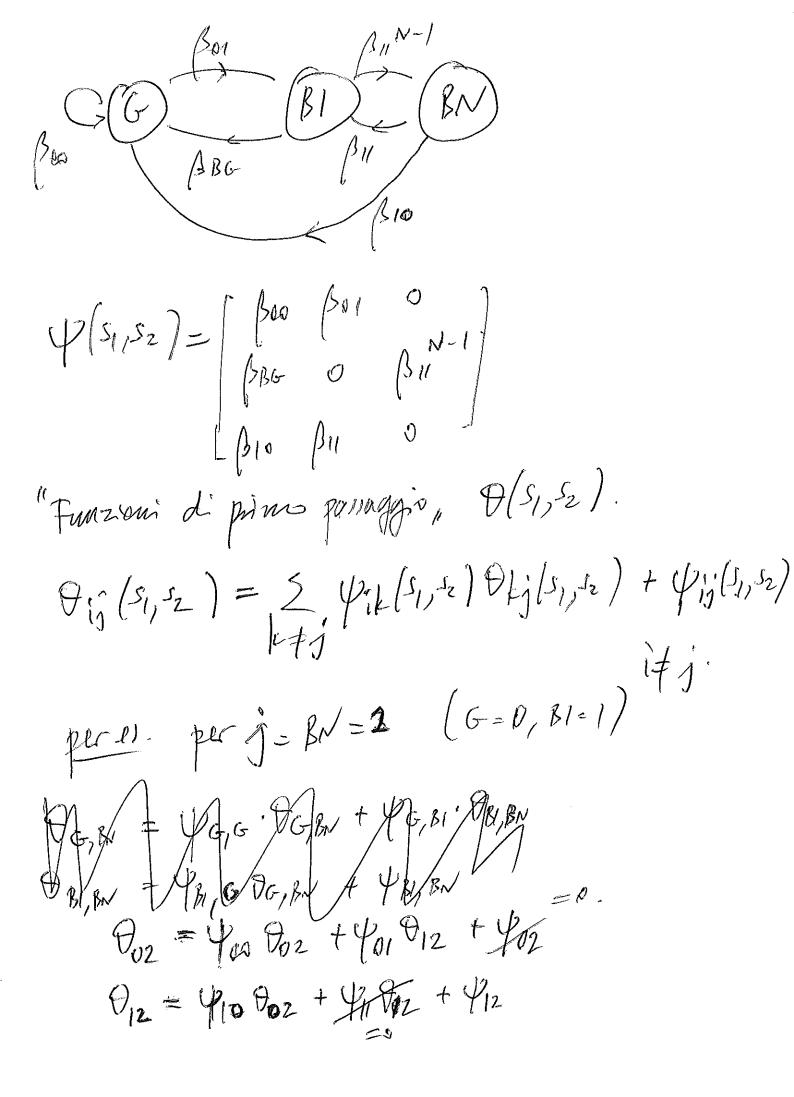
$$\frac{1-\beta_{11}}{1-\beta_{11}} = B(s_{1},s_{2})$$

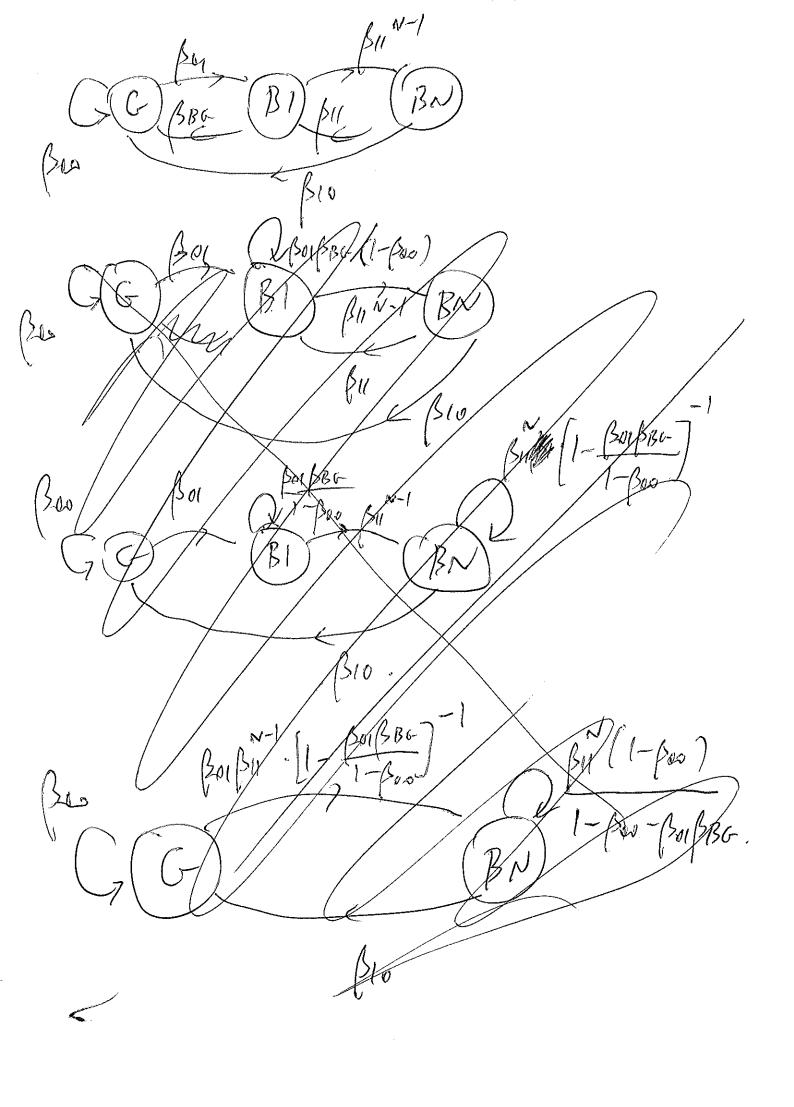
$$B(s_{1},s_{2}) = \beta_{00} + \beta_{01} \frac{\beta_{10} \cdot \frac{1-\beta_{11}}{1-\beta_{11}} + \beta_{10} \beta_{11}}{1-\beta_{11}} =$$

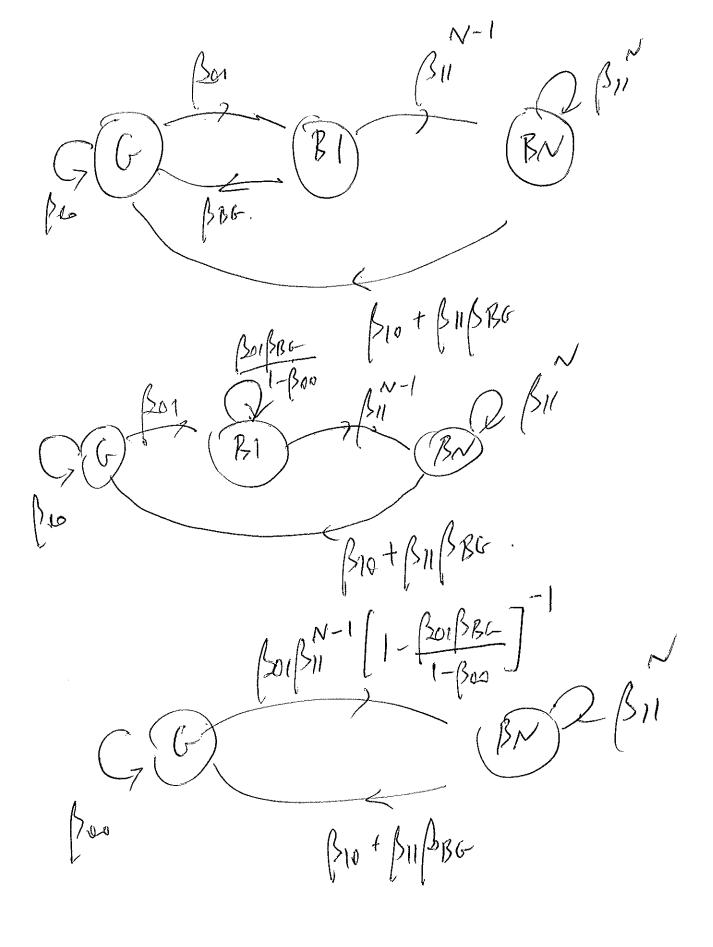
$$= \beta_{00} + \beta_{01} \beta_{10} \cdot \frac{1-\beta_{11}}{1-\beta_{11}} + \beta_{10} \beta_{11}}{1-\beta_{11}} =$$

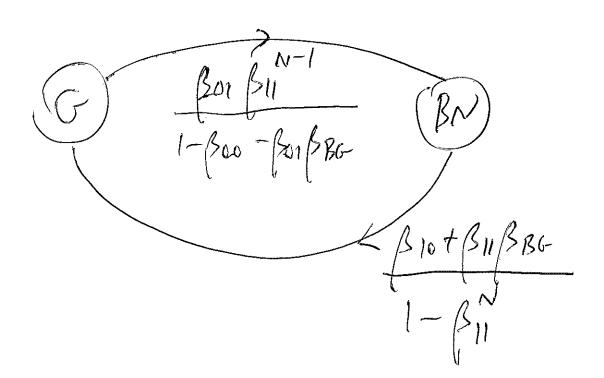
$$= \beta_{00} + \frac{\beta_{01} \beta_{10}}{1-\beta_{11}} (1-\beta_{11})$$

$$B(1,1) = \beta_{00} + \frac{\beta_{01} \cdot \beta_{10} (m)}{1-\beta_{11} (m)} = 1 \quad \text{OK}$$









Da = 400 mm + 401 Plo +402 P20 D10 = 410 000 + 411 010 + 412 020 O20 = 420 + 421 010 + 422 020. Ozo = 420 + 421410 + 421412 Ozo 020 = 420 + 421410 1-421412 = B10 + B11 BB6 1-100 BII