4. Brunowsky canonical form (MIMO)

(A,B) reachable, I a sole feed back (F°) and input and state transformations (Q. Tc).

To (A+BQcF°) To -1 = AB ToBQc = BB

$$A_{B} = \begin{pmatrix} 01 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 01 & 0 \\ 0 & 0 & 1 \\ 0 & 0 & 0 \end{pmatrix}$$

$$BQ = \begin{pmatrix} 0 & 0 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \\ 0 & 0 &$$