

$$A_{eq} = \left[ \begin{array}{ccc|ccc} I_{n \times n} & 0 & \dots & 0 & 0 & \dots & 0 \\ A_d & -I_{n \times n} & 0 & \dots & 0 & \dots & 0 \\ 0 & \dots & 0 & A_d & -I_{n \times n} & 0 & \dots \\ \vdots & & & & & & \\ 0 & \dots & 0 & A_d & -I_{n \times n} & 0 & \dots \end{array} \right] \left[ \begin{array}{ccc} 0 & \dots & 0 \\ B_d & & 0 \\ \vdots & & \\ 0 & \dots & B_d \end{array} \right]$$

}  $N \cdot n$

$$b_{eq} = \left[ \begin{array}{c} x \\ \vdots \\ 0 \end{array} \right]$$

}  $(N+1)n + N_m$   
 $\bar{x} = x_0$  init. condition

$$A_{ineq} = \left[ \begin{array}{c} 0 \dots \\ \vdots \end{array} \right]$$

$$b_{ineq} = \left[ \begin{array}{c} \vdots \\ 0 \end{array} \right]$$

$m = \dim u$   
 $n = \dim x$