

Dari Pers I:

$$Y(s) = b_m s^m X(s) + b_{m-1} s^{m-1} X(s) + \dots + b_1 s X(s) + b_0 X(s)$$

Inverse Transf. Laplace:

$$y(t) = y = b_0 x(t) + b_1 \frac{dx(t)}{dt} + \dots + b_{m-1} \frac{d^{m-1} x(t)}{dt^{m-1}} + b_m \frac{d^m x(t)}{dt^m}$$

$m < n$

Pers. Keluaran:

$$y = b_0 x_1 + b_1 x_2 + b_2 x_3 + \dots + b_{m-1} x_m + b_m x_{m+1}$$

Dalam bentuk matrix:

$$y = \underbrace{[b_0 \ b_1 \ b_2 \ \dots \ b_m \ 0 \ 0 \ 0]}_{\substack{\text{e} [1 \times n] \\ \leftarrow m+1}} \begin{bmatrix} x_1 \\ x_2 \\ \vdots \\ x_m \\ x_{m+1} \\ \vdots \\ x_n \end{bmatrix}$$

$\xrightarrow{m+1} \quad \xrightarrow{n-(m+1)}$

Paling banyak
 $m = n-1$