

Solusi non-homogenous.

$$x(t) = e^{At} c(t) = [e^{At}] \int [e^{-At}] B u(t) dt$$

Solusi homogenous + non-homogenous.

$$\underline{x(t)} = [e^{At}] x_0 + [e^{At}] \int [e^{-At}] B u(t) dt$$

$$= [e^{At}] \left[x_0 + \int [e^{-At}] B \underline{u(t)} dt \right]$$

matrix
transisi

Pers. keluaran

$$y(t) = C x(t) + D u(t)$$

$$y(t) = C [e^{At}] \left[x_0 + \int [e^{-At}] B u(t) dt \right] + D u(t)$$