对状态34星术角孔

$$\dot{X} = \begin{bmatrix} -1 & 0 \\ 0 & -2 \end{bmatrix} \times + \begin{bmatrix} 1 \\ 1 \end{bmatrix} u$$

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$$u(t) = 1 tt$$

U La place

 $u(s) = \frac{1}{s}$

(2)
$$x(t) = e^{At} x(0) + A^{-1} (e^{At} - I) B \qquad (k=1, \frac{1}{2}e^{2t}) A = e^{At} [e^{-1}] + [e^{-\frac{3}{2}} - \frac{1}{2}] [e^{-2t} + e^{t} - I] A = e^{At} [e^{-1}] + [e^{-\frac{3}{2}} - \frac{1}{2}] [e^{-2t} - e^{-t}] A = e^{At} [e^{-1}] + [e^{-\frac{3}{2}} - \frac{1}{2}] [e^{-2t} - e^{-t}] A = e^{At} [e^{-1}] A = e^{At} [e$$

I) B

$$(k=1, \frac{1}{2} \frac{1}{2} \frac{1}{2})$$
 $e^{2t} + e^{t} - 1$
 $e^{2t} - e^{-t} - 1$
 $e^{2t} -$

$$\Phi(s) = \begin{bmatrix} s & cos \\ o & dos \\ o &$$