Bennet Slown Engr 203
$$5/3/19$$

4.1 $\mathcal{L} \{ cosh(\alpha t) \} \rightarrow \int_{0}^{\infty} [\hat{z}(\hat{c}^{\pm} + \hat{c}^{-\alpha t}) \circ e^{-st}] dt$

= $\frac{1}{2} [\int_{0}^{\infty} e^{-(8-\alpha)t} dt] + \int_{0}^{\infty} e^{-(8+\alpha)t} dt]$

= $-\frac{1}{2} \{ \frac{1}{8-\alpha} [e^{-(8-\alpha)t}] \circ + \frac{1}{8+\alpha} [e^{-(8+\alpha)t}] \circ \}$

= $-\frac{1}{2} \{ \frac{1}{8-\alpha} [e^{-\alpha} - e^{\circ}] + \frac{1}{8+\alpha} [e^{-\alpha} - e^{\circ}] \}$

= $-\frac{1}{2} [-\frac{1}{9-\alpha} - \frac{1}{8+\alpha}] = \frac{1}{2} [\frac{2}{8-\alpha} + \frac{1}{9+\alpha}]$

= $\frac{1}{2} [\frac{1}{8-\alpha} + \frac{1}{8+\alpha}] = \frac{1}{2} [\frac{2}{8-\alpha} + \frac{1}{9+\alpha}]$

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= $\frac{1}{2}$

$$\frac{y.y.}{2} = \int_{0}^{2\pi} \left(\frac{e^{-2\pi t}}{e^{-2\pi t}} \cosh(yt) + \frac{1}{2} \right) dt$$

$$= \int_{0}^{2\pi} \left(\frac{e^{-(8+2)t}}{e^{-2\pi t}} \cosh(yt) \right) dt$$

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$$A = \begin{bmatrix} s+2+j\frac{\sqrt{2}}{2} \end{bmatrix} F(s)|_{s=-\frac{1}{2}-j} \frac{\sqrt{2}}{2}$$

$$= \begin{bmatrix} -j\sqrt{3} \end{bmatrix}^{-1} = \begin{bmatrix} -j\sqrt{3} \end{bmatrix}^{-1}$$

$$= \begin{bmatrix} -j\sqrt{3}$$