Gabriel Vita Amond Rums

Lista de CEL

$$(s-2)^2 + \frac{2}{(s-3)^2} + \frac{1}{(s-4)^2}$$

$$\frac{s}{s^2 + 2s} = \frac{(s-1)}{(s-1)^2 + 2s} + \frac{3(s+4)}{(s+4)^2 + 2s}$$

$$|| \int_{-1}^{1} \left(\frac{(u-1)^2}{u^4} \right) = \int_{0}^{1} \left(\frac{u^2 - 2u + 1}{u^4} \right) = \int_{0}^{1} \left(\frac{u^2}{u^4} - \frac{2u}{u^4} + \frac{1}{u^4} \right)$$
(5.41)

$$= \frac{1}{u^{2}} \left\{ \frac{1}{u^{2}} + \frac{1}{u^{3}} + \frac{1}{u^{4}} \right\} = \frac{1}{u^{3}} \left\{ \frac{1}{(s+2)^{2}} - \frac{2}{(s+2)^{4}} + \frac{1}{(s+2)^{4}} \right\}$$

$$\left. \int_{0}^{2\pi} \left| \frac{(3+1)^{2}}{(3+2)^{4}} \right|^{2\pi} = e^{-2\pi t} \left(+ -t^{2} + \frac{t^{3}}{6} \right)$$

$$\frac{13}{5^{2}-65+10} = \frac{1}{5^{2}-65+10} = \frac{1$$

$$S^{2} - 6s + 10 = (S^{2} - 6s + 9) + 1$$

$$S^{2} - 6s + 9$$

$$S = 6 + \sqrt{36 - 36} = \frac{6}{2} = \frac{3}{4}$$

$$\left|\frac{1}{\left(S-3\right)^{2}+1}\right|=e^{3t}Sen(t)$$

$$(3)$$
 $(3-2)$

$$\frac{SS}{(S-2)^2} = \frac{A}{(S-2)} + \frac{B}{(S-2)^2} = \frac{A(S-2) + B}{(S-2)^2}$$

$$SS = A(S-2)+8$$

$$S(A) - 2A + B = SS$$

$$= (S-2) + \frac{10}{(S-2)^{2}}$$

$$A = S = 0$$

$$A = S + \frac{10}{5} + \frac{10}{(S-2)^{2}} = e^{2t} (S + 10t)$$

$$-2.5 + 9 = 0$$

$$B = 10$$

$$\frac{S}{(S+1)^2} = \frac{A}{(S+1)} + \frac{B}{(S+1)^2} = \frac{A(S+1) + B}{(S+1)^2}$$

$$A(S+1) + B = S$$

$$S(A) + A + B = S$$

$$A = 1$$

$$1+B = 0$$

$$B = -1$$

$$(S+1)^{2}$$

$$(S+1)^{2}$$

$$(S+1)^{2}$$

$$(S+1)^{2}$$

$$(S+1)^{2}$$

$$\frac{1}{(S^2+2s+1)+4} = \frac{1}{(S+1)^2+4} = \frac{1}{(S+1)^2+2^2}$$

$$\frac{1}{(s-1)^4} = \frac{1}{3!} \cdot t^3 \cdot e^t = \frac{t^3}{6} e^t$$

$$b(y)(s^2-4s+4)=\frac{3!}{(s-2)^4}=\frac{6}{(s-1)^4(s-2)}=\frac{6}{(s-2)^6}$$

$$S^{2}-45+4$$

$$(S-2)^{6} = \frac{6}{5!} \frac{3!}{(S-2)^{6}} = \frac{1}{20} \cdot \frac{1}{5!} \frac{1}{5!} \frac{1}{(S-2)^{6}} = \frac{1}{20} \cdot \frac{1}{5!} \frac{1}{5!$$

$$\frac{6}{s^4(s-2)^2} = \frac{A}{s} + \frac{B}{s^2} + \frac{C}{s^3} + \frac{D}{s^4} + \frac{E}{s-2} + \frac{F}{(s-2)^2}$$

$$\frac{6}{s^4(s-2)^2} = \frac{1}{s} - \frac{4}{s^2} + \frac{12}{s^3} - \frac{24}{s^4} + \frac{1}{s-2} - \frac{1}{(s-2)^2}$$

$$\frac{1}{(s-2)^2} \frac{(s-2)-2}{(s-2)^2} = \frac{1}{s-2} - \frac{2}{(s-2)^2}$$

$$\frac{1}{(5^2+85+20)} = \frac{y'(0)}{(5^2+85+16)+4} = \frac{y'(0)}{(5+4)^2+4} = \frac{y(0)}{(5+4)^4-2^2}$$

$$b(1.2(1-2)) = \frac{e^{-25}}{5^2} + \frac{2e^{-25}}{5}$$

$$\frac{1}{S(s+1)} \Rightarrow f(+1=1-e^{-\frac{1}{2}}$$

$$\int_{S(S+1)}^{-1} \left| \frac{e^{-s}}{s(s+1)} \right| = \left(1 - e^{-(t-1)}\right) \mathcal{U}(t-1)$$