$$Q(t) : A(t) : K(t) : C_1(t) : F \Rightarrow \frac{F(w-w_0) + F(w+w_0)}{2} = \frac{x(w-lo_0)(w+lo_0)}{2}$$

$$b(t) = A(w) : H_1(w) = \frac{x(w+lo_0) + x(w-lo_0)}{2} : rect(\frac{w}{l_0})$$

$$d(t) = b(t) : C_0(t) : D(w) = \frac{1}{2}(e^{\frac{2}{1}}P B(w-q_0) + e^{\frac{2}{1}}P B(w+q_0))$$

$$y(t) = D(t) : H_2(w)$$

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$$(S+d)(S+2)+(S+3)(S+b)=2S^2+2S$$

$$H(s) = \frac{Y(s)}{X(s)} = \frac{2s(s+1)}{(s+2)(s+3)}$$

$$03,$$

$$a = 0 \quad \chi(\mathfrak{e}) = [ \quad \chi(\mathfrak{s}) = \mathfrak{L}(\mathfrak{s}) ]$$

$$a > 0 \quad \chi(\mathfrak{e}) = -e^{n\mathfrak{t}} \chi(\mathfrak{e}) + e^{n\mathfrak{t}} \chi(\mathfrak{e}) ]$$

$$\chi(\mathfrak{s}) = \frac{1}{\mathfrak{s}+n} = -\frac{1}{\mathfrak{c}+n} = \frac{-2h}{(\mathfrak{s}+n)(\mathfrak{s}-n)} \quad (-n < le | \mathfrak{s}) < h$$

Q(y.

$$K(t) + \frac{d}{dt} (K(t) + \omega(t)) = y(t)$$
 $W(t) = \frac{d}{dt} y(t) - (-\frac{1}{3})$ 
 $K(t) + \frac{d}{dt} (K(t) - \frac{1}{3} \frac{d}{dt} y(t)) = y(t)$ 
 $Y(t) + x'(t) - \frac{1}{3} y''(t) = y(t)$ 
 $H(s) = \frac{s+1}{3s^2+1}$ 
 $\Rightarrow S = \pm (S_1)$ 

Nastable for poles on imaginary axis