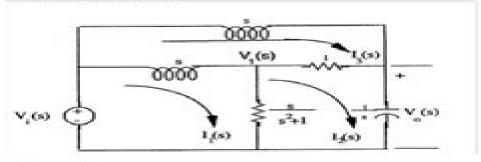
$$I_2(s) = \frac{\begin{vmatrix} 2s+1 & V_i(s) \\ -1 & 0 \end{vmatrix}}{\begin{vmatrix} 2s+1 & -1 \\ -1 & \frac{3s^2+s+2}{s} \end{vmatrix}}$$

Solving for Is(s)/V(s),

$$\frac{I_{s}(s)}{V_{s}(s)} = \frac{s}{6s^{3} + 5s^{2} + 4s + 2}$$

But $V_{\sigma}(s) = I_2(s)3s$. Therefore, $G(s) = 3s^2/(6s^3 + 5s^2 + 4s + 2)$.

b. Transforming the network yields,



Writing the loop equations,

$$(s + \frac{s}{s^2 + 1})I_1(s) - \frac{s}{s^2 + 1}I_2(s) - sI_3(s) = V_i(s)$$

$$-\frac{s}{s^2 + 1}I_1(s) + (\frac{s}{s^2 + 1} + 1 + \frac{1}{s})I_2(s) - I_3(s) = 0$$

$$-sI_1(s) - I_2(s) + (2s + 1)I_1(s) = 0$$

Solving for I₂(x),

$$I_2(s) = \frac{s(s^2 + 2s + 2)}{s^4 + 2s^3 + 3s^2 + 3s + 2} V_i(s)$$

But,
$$V_{o}(s) = \frac{I_{2}(s)}{s} = \frac{(s^{2} + 2s + 2)}{s^{4} + 2s^{3} + 3s^{2} + 3s + 2}V_{s}(s)$$
. Therefore,

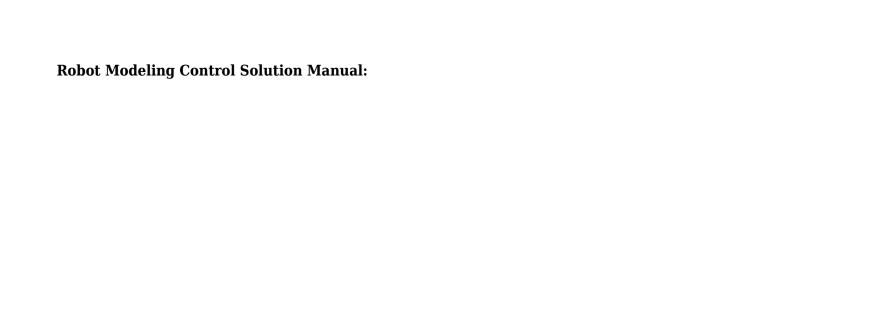
$$\frac{V_s(s)}{V_t(s)} = \frac{s^2 + 2s + 2}{s^4 + 2s^3 + 3s^2 + 3s + 2}$$

1190

Writing the no-dal equations yields,

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N Colangelo



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