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Example 4 current a Nodal Analysis

$$V_{A}\left(1+\frac{1}{5}+\frac{1}{5}\right)=V_{S}(s)$$

$$V_{A}(s) = S^{3} + 1 V_{S}(s)$$

$$T(s) = V_{s}(s) - V_{A}(s) = \left(1 - \frac{s^{3}+1}{s^{3}+2s^{2}+s+1}\right)V_{s}(s)$$

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

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

$$Z(s) = V_{s}(s) = S^{3} + 2s^{2} + s + 1$$

$$T(s) = 7s^{2} + 1$$