$$D_{1}(z) = \frac{T}{z-1}$$

$$D_{2}(z) = (T^{2}z)/(z-1)^{2}$$

$$D_{3}(z) = \left[T^{3}(z^{2}+z)\right]/\left[z(z-1)^{3}\right]$$
From Table in the posted textbook

$$G_{D}(z) = \frac{50(-1+33.3333 D_{1}(z)+13,333.33 D_{2}(z))}{1+[85.333 D_{1}(z)+12,133.3 D_{2}(z)+693,333 D_{3}(z)]}$$