

$$v := 350 \quad v := 1..20000$$

$$\lambda(v) := \frac{v}{v} \quad j := \sqrt{-1}$$

$$\omega(v) := 2 \cdot \pi \cdot v \quad k(v) := 2 \cdot \frac{\pi}{\lambda(v)}$$

$$P01 := 1 \quad P02 := 1.72 \quad r1 := 1 \quad r2 := 1 \quad P012 := 0.8 \quad P022 := 0.4 \quad P013 := 0.6 \quad P023 := 0.3 \quad P014 := 0.4 \quad P024 := 0.8$$

$$t := 0, 0.0001..0.5 \quad f01 := 0 \quad f02 := 45$$

$$t2(t) := t + \frac{0}{v}$$

$$y1(t) := (\omega(3000) \cdot t - k(3000) \cdot r1 + f01) \cdot 2 \cdot \frac{\pi}{180}$$

$$y8000(t) := (\omega(8000) \cdot t2(t) - k(8000) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$y2(t) := (\omega(3000) \cdot t2(t) - k(3000) \cdot r2 + f02) \cdot 2 \cdot \frac{\pi}{180}$$

$$y20000(t) := (\omega(20000) \cdot t2(t) - k(20000) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$y12(t) := (\omega(3500) \cdot t - k(3500) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$y800(t) := (\omega(800) \cdot t2(t) - k(800) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$y22(t) := (\omega(3500) \cdot t2(t) - k(3500) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$y400(t) := (\omega(400) \cdot t2(t) - k(400) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$y13(t) := (\omega(4000) \cdot t - k(4000) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$y23(t) := (\omega(4000) \cdot t2(t) - k(4000) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$y14(t) := (\omega(2500) \cdot t - k(2500) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$P8000(t) := 1 \cdot \exp(j \cdot y8000(t)) \quad P20000(t) := 0.22 \cdot \exp(j \cdot y20000(t))$$

$$y24(t) := (\omega(2500) \cdot t2(t) - k(2500) \cdot r2) \cdot 2 \cdot \frac{\pi}{180}$$

$$P800(t) := 0.15 \cdot \exp(j \cdot y800(t)) \quad P400(t) := 0.4 \cdot \exp(j \cdot y400(t))$$

$$P1(t) := P01 \cdot \exp(j \cdot y1(t))$$

$$P2(t) := P02 \cdot \exp(j y2(t))$$

$$P12(t) := P012 \cdot \exp(j y12(t))$$

$$P22(t) := P022 \cdot \exp(j y22(t))$$

$$P13(t) := P013 \cdot \exp(j y13(t))$$

$$P23(t) := P023 \cdot \exp(j y23(t))$$

$$P14(t) := P014 \cdot \exp(j y14(t))$$

$$P24(t) := P024 \cdot \exp(j y24(t))$$

$$Pc(t) := P1(t) + P2(t) + P12(t) + P22(t) + P13(t) + P23(t) + P14(t) + P24(t) + P8000(t) + P20000(t) + P800(t) + P400(t)$$

$$Pc3(t) := P1(t) + P2(t)$$



