MA3DIFINTRO

Fresnel's formulas as function of angle of incidence for n2<n1
Graph of arg(zr) - arg(zrr).

Complex zr for parallel and zrr for perpendicular case.

$$\theta \equiv 0, 1 .. 90 \qquad n2 \equiv 1$$

$$rp(\theta) := \frac{\left(\frac{n2}{n1}\right)\cdot\cos\left(2\cdot\frac{\pi}{360}\cdot\theta\right) - \sqrt{1-\left[\left(\frac{n1}{n2}\right)\cdot\sin\left(2\cdot\frac{\pi}{360}\cdot\theta\right)\right]^2}}{\frac{n2}{n1}\cdot\cos\left(2\cdot\frac{\pi}{360}\cdot\theta\right) + \sqrt{1-\left[\left(\frac{n1}{n2}\right)\cdot\sin\left(2\cdot\frac{\pi}{360}\cdot\theta\right)\right]^2}}$$

$$rs(\theta) := \frac{\cos\left(2\cdot\frac{\pi}{360}\cdot\theta\right) - \left(\frac{n2}{n1}\right)\cdot\sqrt{1-\left[\left(\frac{n1}{n2}\right)\cdot\sin\left(2\cdot\frac{\pi}{360}\cdot\theta\right)\right]^2}}{\cos\left(2\cdot\frac{\pi}{360}\cdot\theta\right) + \left(\frac{n2}{n1}\right)\cdot\sqrt{1-\left[\left(\frac{n1}{n2}\right)\cdot\sin\left(2\cdot\frac{\pi}{360}\cdot\theta\right)\right]^2}}$$

$$n1 \equiv 1.9$$