$$m = 0.13 \tag{1}$$

$$\rho_d = 0.3, 0.\vec{0}5, 0.05 \tag{2}$$

$$\rho_s = 0.0, 0.\vec{2}, 1.0 \tag{3}$$

$$f = \frac{\rho_d}{\pi} + \frac{\rho_s}{\pi} * \frac{D * G}{(\vec{n} \cdot \vec{\omega_i}) * (\vec{n} \cdot \vec{\omega_o})} \tag{4}$$

$$G = \min(1, \min(\frac{2 * (\vec{n} \cdot \vec{h}) * (\vec{n} \cdot \vec{\omega_o})}{(\vec{h} \cdot \vec{\omega_o})}, \frac{2 * (\vec{n} \cdot \vec{h}) * (\vec{n} \cdot \vec{\omega_i})}{(\vec{h} \cdot \vec{\omega_o})})) \tag{5}$$

$$D = \frac{1}{(m^2) * (\cos\theta_h)^4} * \exp -((\tan\theta_h)/m)^2 \tag{6}$$