$$\rho_d = 0.3, \vec{0.3}, 0.3 \tag{1}$$

$$\rho_s = 0.0, \vec{0.2}, 1.0 * 20 \tag{2}$$

$$f = \frac{\rho_d}{\pi} + \frac{\rho_s}{8 * \pi} * \frac{(\vec{n} \cdot \vec{h})}{(\vec{\omega_o} \cdot \vec{h}) * \max((\vec{n} \cdot \vec{\omega_i}), (\vec{n} \cdot \vec{\omega_o}))} \tag{3}$$