

Specular Transmit()

& return L

 $||W_{t}||_{L^{2}} = -\left(\sqrt{1-||W_{t}||_{L^{2}}}\right) N$ $||W_{t}||_{L^{2}} = ||W_{t}||_{L^{2}} - ||W_{t}||_{L^{2}}$ $||W_{t}||_{L^{2}} = ||W_{t}||_{L^{2}} - ||W_{t}||_{L^{2}}$ where $||W_{t}|| = 1$ (Pythogoras)

 $= \frac{N^{f}}{N!}(-M!) + \left(\frac{N^{f}}{N!}(M!N) - \sqrt{1 - ||M^{f}T||_{5}}\right) N$ $= \frac{N^{f}}{N!}(-M! + (M!N)N) - \left(\sqrt{1 - ||M^{f}T||_{5}}\right) N$ $M^{f} = \frac{N^{f}}{N!}(-M! + (M!N)N) - \left(\sqrt{1 - ||M^{f}T||_{5}}\right) N$

11 mf III = sin of -> 11mfTII_s = sing of

 $M^{f \parallel} = M^{f} - M^{f}$

$$\cos \Theta^{f} = \sqrt{1 - \frac{N^{f_{s}}}{N!} \sin_{s} \Theta!}$$

$$= \frac{N^{f}}{N!} (-N!) + \left[\frac{N^{f}}{N!} (N! \cdot N) - \cos \Theta^{f} \right] N$$

21Nsβ=1-502,θ! Cosgo! + 21Nsβ!=1 with Fresnel, we don't care about the direction of reflection or refraction, we just compute how much of the radiance will be reflected and refructed given an incident angle of:

That's why costi, over if wis coming from inside of the object, is always non-negative, because we only are interested in determining the Mand M2 indices of refraction. If wis coming from inside of the object then the "incident" index of the object then the "incident" index of