The reflected power in specular direction will be given by

$$P_{pecular} = (\psi_{s0} + \psi_{s1} + \psi_{s2})(\psi_{s0} + \psi_{s1} + \psi_{s2})^*|_{\theta_s = t_i}$$

On simplifying and taking ensemble average, we get

$$\langle \mathbf{P}_{specular} \rangle = |\psi_{s0}|^2 + \psi_{s0} \langle \psi_{s2}^* \rangle + \langle |\psi_{s1}|^2 \rangle + \langle \psi_{s2} \rangle \psi_{s0}^* + \langle |\psi_{s2}|^2 \rangle \tag{4.9}$$

$$\langle P_{specular} \rangle = |\chi|^2 + \chi \tilde{\psi}_{s2}^* + 2 \frac{k^2 h^2 l}{\sqrt{\pi}} \cos^2 \theta_i \ |\chi|^2 + \chi^* \tilde{\psi}_{s2}$$
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