# Double glass component reflection

# Overview

For the reflection of light from a thin film on glass, that is, from two boundary surfaces, the generalized Fresnel equations are:

$r_p e^{i\delta_p} = \dfrac{r_p' + r_p'' e^{-ix}}{1 + r_p' r_p'' e^{-ix}}, \quad r_s e^{i\delta_s} = \dfrac{r_s' + r_s'' e^{-ix}}{1 + r_s' r_s'' e^{-ix}}.$ This also can be interpreted as a reflection from a single surface of a hypothetical medium, the reflected components having amplitudes $r_p$ and $r_s$ and phases $\delta_p$ and $\delta_s$.

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