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Then Eqs. (4.36) can be simplified as: (4.37) $q_r = \sigma \cdot (T_w^4 - T_g^4) \frac{1}{\varepsilon_w} + \frac{1}{\varepsilon_g} - 1$. Three modes of heat transfer inside the still have been analyzed. To clearly see the percentage of the three modes in the whole heat transfer process, how the percentage changes with temperature is shown in Fig. 4.3.

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The solution to the equation of radiative transfer is then: $I_\nu(s) = I_\nu(s_0) e^{-\tau_\nu(s_0, s)} + \int_{s_0}^{s} B_\nu(T(s')) \alpha_\nu(s') e^{-\tau_\nu(s', s)} ds'$ {\displaystyle I_{\nu }(s)=I_{\nu }(s_{0})e^{-\tau _{\nu }(s_{0},s)}+\int _{s_{0}}^{s}B_{\nu }(T(s'))\alpha _{\nu }(s')e^{-\tau _{\nu }(s',s)}\,ds'}

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