

Outgoing Radiation

Grey body
surface
radiation

Reflected
radiant energy

$$A_k \sigma \varepsilon_k T_k^4$$

$$(1 - \varepsilon_k) \dot{q}_k^{in}$$

Surface k

Incoming Radiation

Incoming radiation from other
surface, fires and emitting,
absorbing gas layers

$$\dot{q}_k^{in}$$

Energy added to maintain
a constant temperature

$$A_k \Delta \dot{q}_{r,k}''$$

