

Outgoing Radiation

Gray body
surface radiation

$$\sigma A_k \epsilon_k T_k^4$$



Reflected radiant
energy

$$(1 - \epsilon_k) q_k^{in}$$



Incoming Radiation

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

$$q_k^{in}$$



Energy added to the k'th
surface to maintain a
constant temperature

$$A_k \Delta q_k''$$

