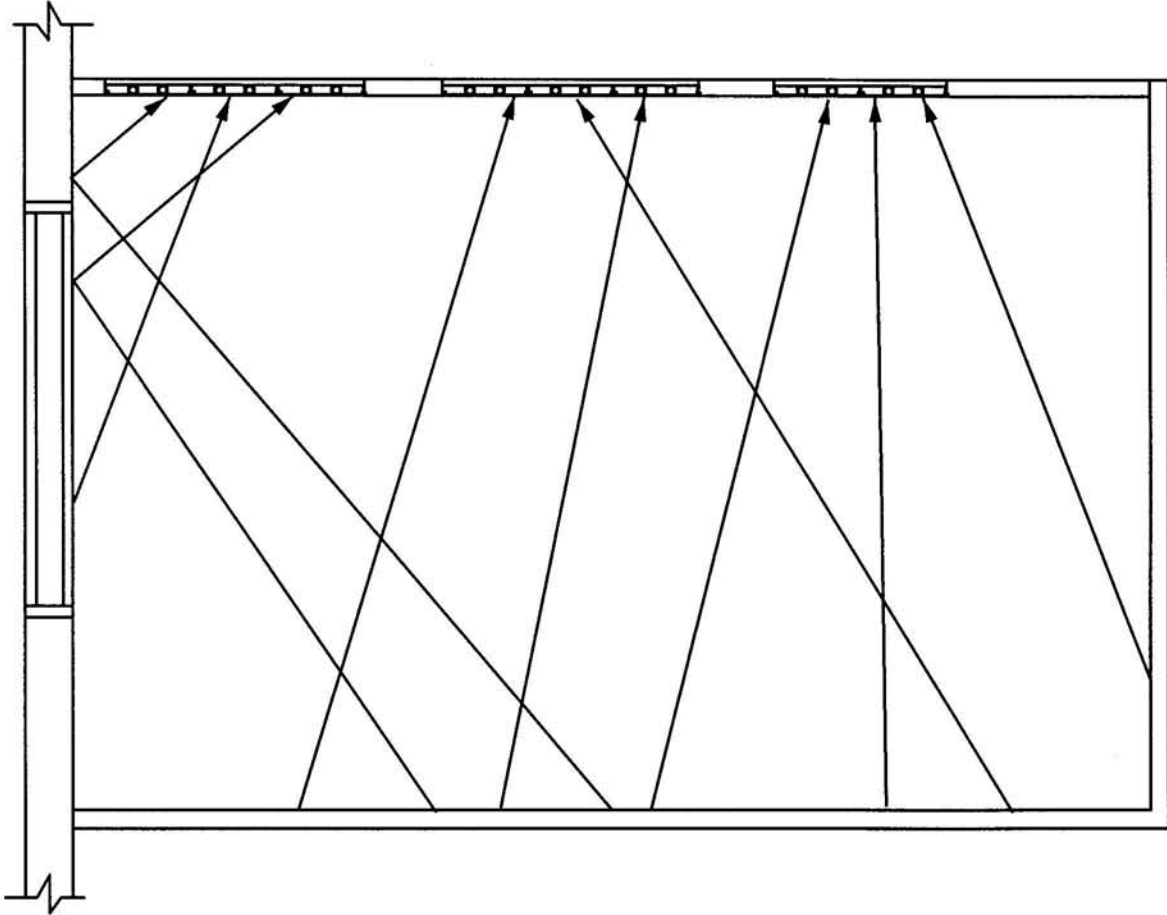


A GRAPHIC DEPICTION AND ENGINEERING FORMULA FOR RADIANT COOLING ENERGY



The basic equation for radiation exchange is the Hottel equation as described in Chapter 8 of the 1992 ASHRAE Systems handbook may frequently be employed. This equation may also be written as:

$$Q_r = 0.5 \left[\left(\frac{AUST + 460}{100} \right)^4 - \left(\frac{T_p + 460}{100} \right)^4 \right]$$

Where:

Q_r = Heat removed by panel from room surfaces by radiation, Btu per
(hour) (square foot)

T_p = Average

AUST= Area-weighted average temperature of the uncooled surfaces in the
room, Fahrenheit