Block IRADIA

The IRADIA block calculates the distribution of solar radiation on the surface of internal walls



IRADIA

Name	IRADIA
Function	bs0025
Inputs	5 + nwalls
Outputs	nwalls + 1
Parameters	nwalls + 3
Strings	0
Group	S

Inputs

1	Total solar irradiation through all windows / W

Outputs

i	..OUTS(nwalls) specific solar radiation heat flux to surface node i / W m^{-2}

Parameters

1	Number of walls n
i+1	Surface area of wall i / m^2
n+1+i	Short wave absorption coefficient α_i for windows (alpha-window + Tau-win(60 deg))

Strings

None