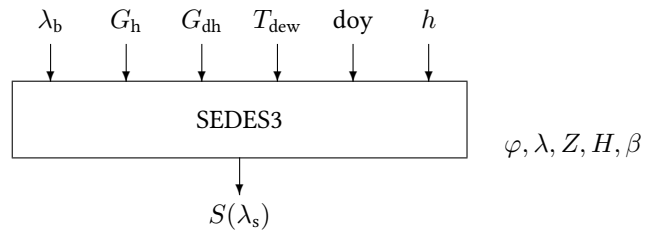


Block SEDES3

The SEDES3 block calculates solar irradiance spectra for the range between 0.3 and 1.4 micrometer.



Name	SEDES3
Function	em0033
Inputs	6
Outputs	1
Parameters	5
Strings	0
Group	S

Inputs

- 1 Wavelength $\lambda_s / \mu\text{m}$
- 2 Global radiation horizontal $G_h / \text{W m}^{-2}$
- 3 Diffuse radiation horizontal $G_{dh} / \text{W m}^{-2}$
- 4 Dewpoint temperature $T_{\text{dew}} / ^\circ\text{C}$
- 5 Day of the year doy
- 6 Hour h

Outputs

- 1 Spectral density $S(\lambda_s) / \text{W m}^{-2} \mu\text{m}^{-1}$

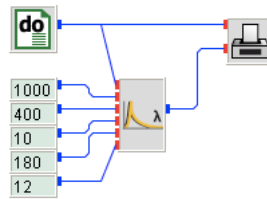
Parameters

- 1 Latitude $\varphi / ^\circ$ (north positive)
- 2 Longitude $\lambda / ^\circ$ (east positive)
- 3 UTC Time zone Z
- 4 Height above sea level H / m
- 5 Tilt angle $\beta / ^\circ$

Strings

None

sedes3.vseit



A **DO** block varies wavelengths between zero and 2 micrometers in steps of 0.01. All other inputs to the **SEDES3** block are set constant.

The **PLOT** block displays the spectrum on screen.

