

Calibration

Input parameters

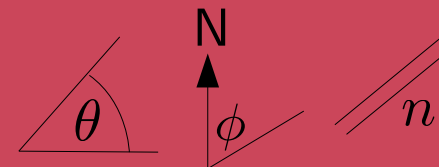
- Location
- Atmosphere (COSMO)
- Aerosol (AERONET)
- Albedo (constant)

libRadtran

$$G_{\text{dir,PV/SW}}^{\downarrow}$$

$$L_{\text{diff,PV/SW}}^{\Omega}$$

System parameters



Optical model

Input parameters

- Ambient temperature
- Wind speed
- Sky temperature

Simulated clear-sky irradiance

$$G_{\text{tot,PV},\tau}^{\angle} \quad G_{\text{tot,SW},\tau}^{\angle}$$

System parameters

PV model

Calibrated parameters

Optimisation

Modelled power

Measured power