A HOME MADE DOUBLE SLAB PYRANOMETER FOR IRRADIANCE MEASUREMENTS

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In the theory of the diuble slab pyranometer, an assumption has been made[1,2], namely, that the absorption coefficients of the black and white slabs of the pyranometer do not depend on the wavelength of the radiation. In order to prove this experimentally, a double slab pyranometer has been constructed and tested for radiation of different wavelengths in the visible region. The results indicate that the response of the pyranometer is the same for radiation of different wavelengths. The time constant of our pyranometer is ~78 s.

References:

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