

## A DOUBLE SLAB PYRANOMETER FOR SOLAR IRRADIANCE MEASUREMENTS

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An inexpensive pyranometer has been constructed and calibrated for solar irradiance measurements. The action of the pyranometer is based on the thermal electromotive force produced between a pair of black and white aluminium wafers when exposed to radiation. The accuracy of the instrument is estimated to be about 5% and the estimated value of the time constant is about 150 s. The instrument has been used to measure the solar irradiance at Peradeniya over several days in June, 1987.

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