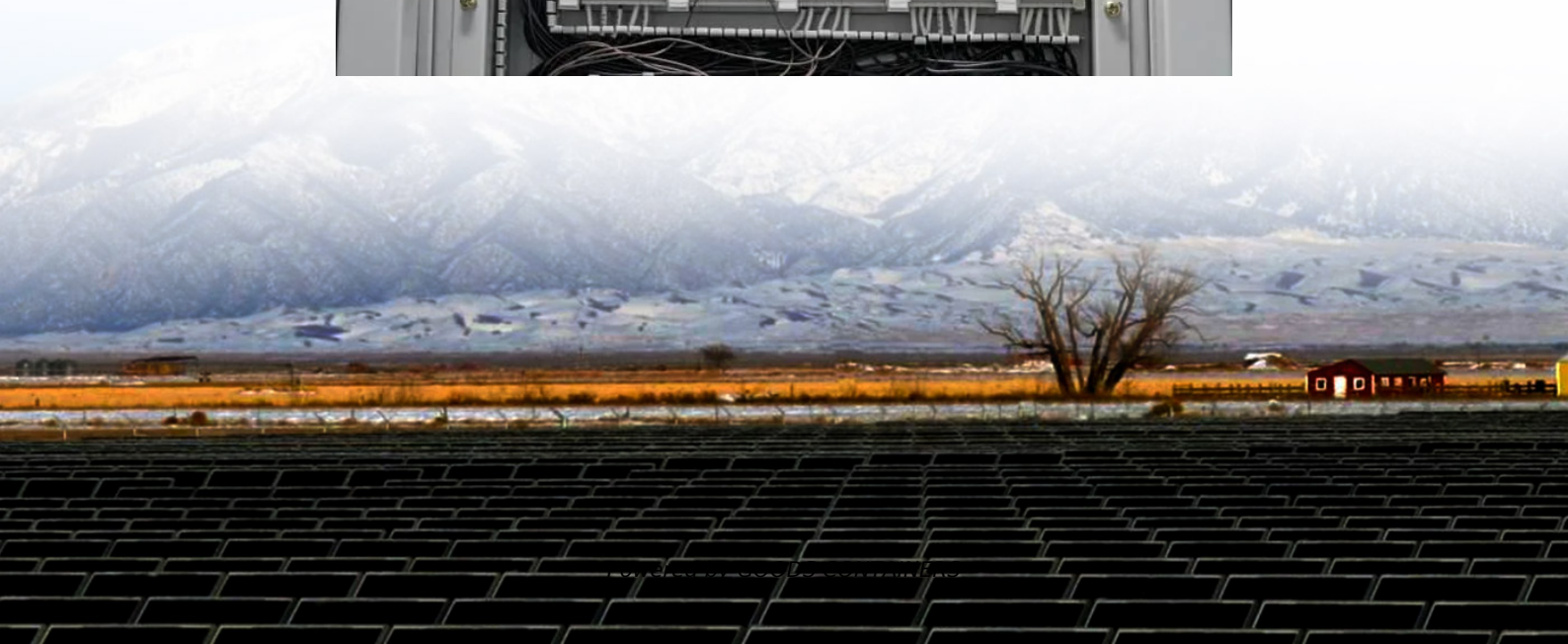


# Transmittance of single crystal double glass module





## Overview

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The transmittance spectrograms of single float glass glazing units at normal incidence with different glass thicknesses in the wavelength 337–900 nm were measured. Then the optical properties of single a.

Can transmittance spectrograms be used to determine optical properties of single glazing units?

In this work, transmittance spectrograms of single glazing units at normal incidence were only measured, and a novel spectroscopic method was developed to determine the optical properties of single and double glazing units based on the transmittance spectra modeling.

How is the transmittance of optical glass measured?

The transmittance of optical glass is measured using double beam spectral photometers from the company Perkin Elmer with special modifications. The standard setup enables to measure within a wavelength region from 250 nm up to 2500 nm. The measurement accuracy over the complete spectrum is about  $\pm 0.5\%$ .

Are double glazing units homogenous and non scattering?

Assumptions for the mathematical model have been listed as follows: (1) The single glazing unit are homogenous and non scattering. (2) As the absorptance of air in the double glazing unit is very weak, the intervention of the air on the radiative interactions with glazing unit is neglected.

What is the transmittance of uncoated solar glass?

The transmittance of conventional uncoated solar glass at a vertical incidence of light is approximately 91%. The front reflects around 4%, around 4% on the back, and 1% absorption. In addition, there are double reflections within the glass, which is in the order of 0.2%.



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