

What is bending behavior of PV panel?

Among the few studies about bending behavior of PV panel, Naumenko and Eremeyev [10] believed that PV panel is a layered composite with relatively stiff skin layer and relatively soft core, since the ratio of shear moduli for core material to skin glass is in the range between  $10^{-5}$  and  $10^{-2}$ .

Does Hoff model describe bending behavior of PV panel?

Both experimental and theoretical works are completed in present paper, and the calculation data match the experimental data well. Based on the results we may conclude as follows: The Hoff model is adopted in this research to describe the bending behavior of PV panel.

Which bending test is required for a PV module?

Only in the standard of PV module itself, IEC 61215 (2005) [9], the bending test under 2.4 kPa uniformly distributed force is required to all commercial PV module.

Is double glass PV panel bending?

In present paper, the bending behavior of double glass PV panel is studied carefully by both experimental and theoretical research. Different from many previous researches, a special boundary condition which is two opposite edges free and the other two edges simply-supported (annotated as SSFF) is considered.

Does classical lamination theory apply to bending behavior of solar panels?

Therefore, an accurate and systematic research on bending behavior of PV panels is important and necessary. In this paper, classical lamination theory (CLT) considering soft interlayer is applied to build governing equations of the solar panel.

What is a photovoltaic (PV) panel?

Author to whom correspondence should be addressed. Currently, the photovoltaic (PV) panels widely manufactured on market are composed of stiff front and back layers and the solar cells embedded in a soft polymeric interlayer.

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