

V-groove of photovoltaic panels

The experimental findings demonstrated that, relative to pure foam core sandwich panels, the V-shaped groove (VG) and semicircular groove (SG) core sandwich specimens exhibited ...

In order to remove the heat from the back of the PV module, three different designs of heat exchanger, V-groove, honeycomb and stainless steel wool were installed horizontally into the...

In this paper, in order to obtain the directional emission of geometric surfaces (V-Grooves) using ray tracing and studying the propagation of light, a new algorithm is developed.

Photovoltaic thermal with v-groove collector has been conducted the exergy analysis by theoretical assessment. The matrix inversion methods were used to analyze the energy balance equation.

It was shown that by using V grooves the efficiency was improved for all three flat solar collectors studied. As seen, the geometric modification contributes to improving efficiency when ...

Electrical and thermal efficiency were produced by photovoltaic thermal (PV/T) system concurrently. Mathematical modeling based on steady-state thermal analysis of PV/T system with v ...

The full fabrication process of V-groove nipi solar cell is completed using five different steps, including mesa etch, V-groove etch, anode metal, cathode metal and cap layer etch ...

The PVT collector with bifacial PV panel and V-groove mirror reflector is developed and tested in this work. The reflected solar radiation from the mirror reflector is absorbed by the rear ...

We report the reduction of dislocation density in GaAs solar cells grown directly on nanopatterned V-groove Si substrates by metal-organic vapor-phase epitaxy.

Mathematical modeling based on steady-state thermal analysis of PV/T system with v-groove was conducted.

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