

# The oil pipe of the solar container device vibrates greatly

**Abstract** This study comparatively assesses the efficiency of various single-slope solar stills employing thermosyphon and pulsating heat pipe evacuated solar collectors, integrated with ...

This study demonstrates that using heat sources vibrating in opposite directions, positioned strategically above and below the thermal storage device, can significantly improve the ...

In order to be able to use the high PV output when there is limited sun exposure, the solar container can also be used in combination with an energy storage device. Especially in completely self-sufficient ...

Due to the periodic movement of the piston in the reciprocating pump, the fluid will cause a pressure pulsation, and the resulting pipeline vibration may lead to instrument distortion, pipe failure and ...

The invention discloses an underwater equipment sealing device and an underwater vibrating table. The underwater equipment sealing device comprises a first pipeline, a second pipeline, an actuator and a ...

Pipeline transportation of crude oil is an important aspect of petroleum industry which usually need amounts of electrical heating to reduce wax deposition for long-distance transportation. For saving ...

A technology for oil pipelines and heating devices, applied in pipeline systems, mechanical equipment, gas/liquid distribution and storage, etc., can solve problems such as potential safety hazards, low ...

The effectiveness of using pipe-in-pipe system to mitigate seismic induced vibration of a subsea pipeline with a free span is investigated through numerical simulations by examining the ...

Pipeline transportation is the main way of crude oil and product oil transportation, pipeline leak detection and positioning in time is very important to safe operation of the pipeline.

During oil transportation in pipeline, the flowing oil is heated by solar heating and losses heat to cool ambient air through insulation simultaneously. Oil heat transfer in pipeline during ...

When the pipeline vibrates, it drives the monitoring box to vibrate together, and the vibration sensing device inside the monitoring box vibrates with the vibration, and the inertia ball and spring vibrate ...

This work presents a parametric study to improve the thermal performance of a solar-evacuated tube collector embedded with a heat pipe (SETC HP) by utilizing different types of ...



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