

In this blog post, we will explore how temperature data from these cables can serve as a valuable tool for monitoring seepage in tailings storage facilities and embankment dams, providing a more cost ...

Using Silixa's intelligent Distributed Acoustic Sensor (iDAS(TM)), complementary acoustic measurements can be acquired to detect anomalous seepage flow in dams without a drainage system, and to detect ...

The paper presents the main results of these installations and discusses the potentialities and the limitations of this relatively new monitoring system to provide insight into the seepage process and ...

Several methods have been developed to interpret the temperature data for the localization of the seepage and in some cases to estimate the seepage quantity.

Silixa provides a high-precision distributed fibre optic sensing-based seepage monitoring system that monitors dam conditions.

We have explored six distinct fiber-optic techniques - from distributed temperature and acoustic sensing to point-specific FBG networks and innovative moisture-sensitive cables - each ...

Whether you want to monitor the temperature, strain, vibration, or acoustic signals of your pipeline leakage, monitoring CO₂ and H₂ (onshore/offshore) storage, we have the right skills and ...

HydroResearch and Silixa are developing additional measurement techniques based on the same optical fibre cable to map seepage below the drainage system and identify density changes ...

Therefore, this paper discusses the optical fiber temperature measurements and seepage measurements in various states, mainly including the seepage in unsaturated state, the seepage in ...

The invention discloses a sensing optical cable for monitoring seepage performance and a using method thereof. The cable comprises an excircle module, a middle layer module and an inner...

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