Why is PGC demodulation used in fiber optic sensing

In the practical application of fiber optic hydrophone, in order to identify or locate the test target, the spectrum of the detected signal needs to be analyzed and processed.

The phase generated carrier (PGC) demodulation algorithm has the characteristics of high accuracy, good linearity, and large dynamic range, which makes it widely used in interferometric fiber ...

A highly robust PGC demodulation scheme based on a Lissajous figure judging module and a renormalization ellipse fitting algorithm (R-EFA) is proposed for fiber optic interferometric ...

Phase generation carrier (PGC) modulation and demodulation technology is a kind of passive homodyne demodulation technology, which is widely used in demodulation systems for its ...

Since the performance of fiber optic acoustic sensors is directly influenced by demodulation methods, it is essential to develop a demodulation method that not only addresses the challenge of dynamic ...

As one of the most popular interferometric phase demodulation techniques, phase generated carrier (PGC) demodulation technique has been widely used in fields of high-precision ...

The phase-generated carrier (PGC) demodulation has emerged as a predominant demodulation method for fiber-optic interferometric sensors (FOISs). In practice, dynamic optical path delays and ...

: The phase generated carrier (PGC) demodulation technique is widely used in distributed fiber-optic interferometric sensors, for its high sensitivity, good linearity, and large dynamic range.

Phase generated carrier (PGC) demodulation is widely used in optical fiber interferometers due to its high sensitivity, large dynamic range and high signal fidelity.

Why is PGC demodulation used in fiber optic sensing

Web: https://www.csc-energia.com.pl