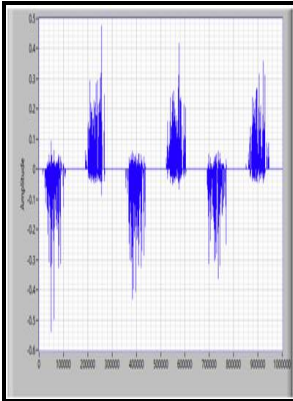


# Dielectric condition monitoring using intelligent partial discharge analysis.

- - How do faults develop in a HV transformer and why condition monitoring is important



Description: -

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## Condition monitoring of power transmission and transformation equipment based on industrial internet of things technology

Most oil-immersed transformers are fitted with analogue devices since direct measurement has historically produced increased dielectric risk. BRIEF DESCRIPTION OF THE DRAWINGS The features of the invention believed to be novel are set forth with particularity in the appended claims. Kranz HG 1993 Diagnosis of partial discharge signals using neural networks and minimum distance classification.

## Partial Discharge Analysis on Rotating Machines

Hotspots can therefore be mapped as the rotor turns.

## How do faults develop in a HV transformer and why condition monitoring is important

One challenge is bringing the temperature signal off the rotor. The typical test configuration is illustrated in FIG.

## Partial discharge pattern analysis using PCA and back

It will be apparent to those skilled in the art that, while the invention has been illustrated and described herein in accordance with the patent statutes, modifications and changes may be made in the disclosed embodiments without departing from the true spirit and scope of the invention. The partial discharge map shown in the Figure 2 allows comparisons between phases and joint positions and highlights potentially problematic areas of the cable circuit.

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