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A digital pressure sensor was installed in a hydraulic accumulator to acquire the pulsating pressure data. Six anomaly detection algorithms were developed based on the acquired data. ...

Although hydraulic accumulators play a vital role in the hydraulic system, they face the challenges of being broken by continuous abnormal pulsating pressure which occurs due to the ...

The gas pressure gauge provides a reading of the pre-charge pressure. Depending on such readings, the hydraulic accumulator is either re-charged or completely overhauled or replaced. ...

Hence, this study develops anomaly detection algorithms to detect abnormalities of pulsating pressure for hydraulic accumulators. A digital pressure sensor was installed in a hydraulic ...

2/7 HYDAC bladder integrity system--BIS The BIS operates on the gas side of the bladder accumulator. It detects when fluid has entered the bladder and triggers a signal. This makes it ...

Nisters et al. presented an accumulator gas leakage detection using only a fluid pressure sensor [5]. They showed that a significant pressure decay occurs when the piston reaches the end ...

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**Hydraulic
detection**

accumulator

pressure

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