

### Sensor Calibration Monitoring and Fault Detection for Chemical Process using Partial Least Square

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For managing complex chemical process, most process industries use data-based process monitoring system and install some kinds of sensors in main process unit and stream.

So process sensor calibrations are required to assure sensors are operating properly. Out-of calibration sensors can result in decreased product quality, causing a loss in reliability of process data. From this research, make some abnormal process operation case from out of calibration sensor and compare with simulated data from PLS.

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