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PlantESP proactively monitors control loop performance on a plant-wide basis. It provides advance warning of mechanical, tuning, and interaction issues using little more than your facility's existing process data.

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The most popular channels are control loop performance monitoring and control loop tuning. Other channels include data analytics for cyber security, low voltage drives and the automation system. Data analytics for the automation system

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identifies software, hardware, system
and network performance irregularities.

Control loop performance monitoring - ABB's experience ...

INTUNE+ Control Loop Performance
Monitoring (CLPM) software is a non-
intrusive plant management and process
control predictive maintenance tool that

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combines process control monitoring with powerful diagnostic and tuning features. INTUNE+ CLPM software includes over 80 standard process measures with real-time analysis and condition-based assessment.

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Control loop performance-monitoring software can help to improve loop performance at electric power plants by automatically collecting data, assessing several aspects of loop performance, and...

Monitoring Control Loop Performance - POWER Magazine

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are now used as monitoring tools. A control loop performance monitoring system should be able to detect poor performing loops and to indicate different causes, then suggesting appropriate moves to apply on the plant. Main distinction is among external perturbations, controller tuning and valve problems: for this reason,

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A Performance Monitoring Tool to Quantify Valve Stiction ...

A control loop performance monitoring system should be able to detect poor performing loops and to indicate different causes, then suggesting appropriate moves to apply on the plant. Main distinction is among external

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perturbations, controller tuning and valve problems: for this reason, techniques able to characterize different sources have been proposed.

A Performance Monitoring Tool to Quantify Valve Stiction ...

Control loop performance monitoring software can help. To equip you with the

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right answer PlantESP combines analysis from the solution's many KPIs with advanced process heuristics. PlantESP's recommendations for corrective action take numerous factors into account. They simplify the steps needed to first verify the root-cause and then to ...

Recommendations - Control Station

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Abstract—Valve stiction is an important cause of performance deterioration in control loops of industrial plants; owing to the large number of loops in complex plants and different cause of poor performance, it is important to be able to detect causes and suggest actions to perform in automatic way. The paper

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Stiction Detection And **Closed Loop Performance**

Monitoring: Automatic Diagnosis of

...

Control Loop Performance Monitoring Solution. PlantESP's portfolio of KPIs equip you with actionable information. There are a lot of metrics for evaluating performance, but not all metrics provide meaningful information. Our PlantESP

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performance monitoring solution is equipped with a targeted set of key performance metrics (KPIs) that are proven to deliver actionable insight.

Metrics - Control Station

Stiction can be detected by placing the controller in manual mode and making small changes (0.5 percent is

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recommended) in controller output and monitoring the process variable for a resulting...

Analyzing and Improving Control Loop Performance | Power ...

Stiction may be the leading cause of process performance issues, but there are numerous mechanical challenges

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that regularly undermine control. If left unchecked, those issues can quickly transition from a minor irritation to a major liability.

Reporting - Control Station

Presence of stiction in a control loop produces limit cycle oscillations in the process output (pv) and the controller

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output (op). Changes in controller gain cause changes in amplitude and frequency of these limit cycle oscillations.

A SIMPLE TEST TO CONFIRM CONTROL VALVE STICTION ...

Our PlantESP performance monitoring solution allows users to activate the

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Alerts function on a loop-by-loop basis – activating them for all KPIs or for a more specialized set of metrics. Alerts can be configured by applying either user-defined or PlantESP-defined benchmarks. What's more, PlantESP offers an optional feature that automatically tightens KPI benchmarks as individual loop performance improves

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over time. Troublemakers

Alerts - Control Station

The presence of non-linearities, such as stiction and deadband, places limits on the performance of control valves.

Indeed, in the process industries, stiction is the most common valve problem, and over the last decade numerous different

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techniques for overcoming it have been
proposed.

Detection and Diagnosis of Stiction in Control Loops ...

While monitoring single control loop performances is a valuable procedure to quickly and efficiently spot suddenly arising faults and/or slowly developing

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degradation, it still misses the crucial feature to recognize, group and analyze similar patterns which might be the signature of a single major cause simultaneously affecting multiple loops.

Control Performance Monitoring A Data-Driven ApproachA

Valve stiction is a frequent cause of loop

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performance deterioration and in recent literature many techniques have been proposed for its automatic detection. Yamashita [(2006). An automatic method for detection of valve stiction in process control loops.

An improved qualitative shape analysis technique for ...

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References: Performance assessment of MPC. Book: Huang, B. and R. Kadali, Dynamic Modeling, Predictive Control and Performance Monitoring: A Data-driven Subspace Approach, Springer Verlag, ISBN: 978-1-84800-232-6, Chapter 9: State-of-the-art MPC Performance Monitoring. K. Lee, B. Huang, E.C. Tamayo, Sensitivity Analysis

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for Constraint and Variability Tuning in
Performance Assessment of ...

Control Performance Assessment toolbox

What is it. Control Performance Monitor
is a vendor-independent software
application that communicates with
modern distributed control system (DCS)

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technologies to provide monitoring, tuning and modeling capabilities in a single package. When paired with Honeywell's loop and Model Predictive Control maintenance technologies, it provides real-time data collection and analysis, control loop tuning, modeling and multivariate step testing capabilities

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to help users ...

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