Process Monitoring

by
Mohd Yusri Mohd Yunus
yusri@ump.edu.my

Chapter 4
Industrial Monitoring Review

Process Monitoring

Chapter Description

- Aims
  - Analyze the current progression of industrial monitoring application.
- Expected Outcomes
  - Conduct a critical review of the current industrial monitoring issues particularly on the MSPM extensions.
- Other related Information

Project II

Write an article regarding the most critical technical abnormality (instrumentation fault, runaway reaction, leakage in pipeline, etc) which normally encountered in process industry. Provide the latest solution that relate to the situation such that one of the desirable characteristics of diagnostic system is addressed effectively.

- At least 3 articles should be referred.

References

- Venkatasubramanian, V., Rengaswamy, R., Yin, K., Kavuri, S.N., (2003a). A Review of Process Fault Detection and Diagnosis. Part I: Quantitative model-based methods. *Computers and Chemical Engineering*, 27, 293 – 311.
- Venkatasubramanian, V., Rengaswamy, R., Kavuri, S.N., (2003b). A Review of Process Fault Detection and Diagnosis. Part II: Qualitative models and search strategies. *Computers and Chemical Engineering*, 27, 313 – 326.
- Venkatasubramanian, V., Rengaswamy, R., Kavuri, S.N., Yin, K., (2003c). A Review of Process Fault Detection and Diagnosis. Part III: Process History-based Methods. *Computers and Chemical Engineering*, 27, 327 – 346.

Authors Information

Credit to the authors: