

Asset management overview focusing on fault detection in industrial processes - A state of the art

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Abstract— The current energetic and economic context brings the need of a proper management of power generation facilities and components. This paper is intended to provide a wide view of the state of the art in asset management, with a special focus on fault detection and diagnosis. The different stages involved in asset management are defined and arranged as layers over the supervised process: Acquisition and pre-processing of data, fault detection, fault diagnosis and maintenance policies. Fault detection approaches are analysed in-depth, highlighting the main characteristics, the advantages and the drawbacks of each approach. Fault diagnosis techniques and maintenance policies are also described and analysed. A detailed bibliography on these topics is also provided.

Index Terms— Asset management; Power generation facilities/components; fault detection/diagnosis

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Citation:

García Matos, J.A.; Sanz-Bobi, M.A.; Muñoz, A.; "Asset management overview focusing on fault detection in industrial processes - A state of the art", International Journal of COMADEM, vol.16, no.2, pp.43-54. April, 2013.