

# Advanced control methods for **INDUSTRIAL PROCESS CONTROL**

**A**s a class of control methods, advanced control is rather vague – not because of the large number of methods that can be included, but because of the indistinct classification criteria. Any two engineers discussing the subject may eventually argue whether some methods belong, or do not belong, to what is considered advanced control.

It is the historical background that explains the variety of control methods that are today considered 'advanced'. It all started 60 years ago with simple but efficient PID control. Just about any method that evolved from PID was considered 'advanced' at the time it was invented. Some have remained under this classification.

One thing is sure: advanced control methods have been proven to be more beneficial and profitable than elementary control methods. Some claim that applying advanced control has resulted in cost savings or product quality improvements from 2% to tens of per cent. But what are the methods behind advanced control?

## ADVANCED CONTROL DEFINED

Typically, advanced control methods involve more complex calculations than the conventional PID controller algorithm. Advanced control has the following features:

- Process modelling and parameter identification (offline or on-line);
- Prediction of process behaviour using process model;
- Evaluation of performance-criterion subject to process constraints;
- Optimisation of performance-criterion;
- Matrix calculations (multivariable control); and
- Feedback control.

Often, advanced control is a high-level control procedure that takes care of sub-processes controlling low level unit control loops such as PID controllers. In this case, advanced control strategy aims to fulfil economic objectives by providing appropriate set points for the lower-level control loops to minimise a given performance-criterion.

Fundamentally, advanced control does not differ from any other control strategy in the sense that it is also based on feedback control. Yet, it is the intelligence behind advanced control that makes the difference when compared to conventional controllers.

## PROCESS MODELS

The use of process models is a common characteristic for advanced control methods. Advanced control relies strongly on process models that describe the process behaviour. The models try to capture the essence of the process information.

The most important use of the model is to enable prediction of the process output behaviour when facing changes in either set point or load disturbance variables. For control design purposes, the most accurate the process model is, the better the control performance that can be achieved by a successful control design. Small process model uncertainties can be allowed because of the feedback control that corrects deviations due to, not only process disturbances, but also modelling errors.

Process models can be divided into quantitative, mathematical, and statistical models.

Quantitative models are basically rule-based tables of process behaviour laws. Fuzzy based models can be regarded as qualitative.

Mathematical models can be classified into physical and black box models. Physical models are derived from the

# Industrial Engineering Methods And Control

**Wenbin Ji**



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