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An introduction to process control and instrumentation is presented in chapter 1. The development and use of models is very important in control systems engineering, and fundamentals models are developed in chapter 2, including the steady-state solution and linearization to form steady-state models.

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Modeling and Control » Dynamic World of Process Control

Hence, modeling design is necessarily applied here to simplify the process and establish an overall optimal model. To implement modeling design, Quality by Design (QbD) concept is a good choice [27], which was introduced in chemical manufacturing control in 2004.

Novel NIR modeling design and assignment in process ...

In general, the concept of design space and the appropriate process control should lead to more flexible, and ideally cheaper, manufacturing processes over time. This can be achieved through process improvements and real-time quality control, eventually leading to a reduction of end-product release testing.

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Model-based design - Wikipedia

Process Control: Modeling, Design, and Simulation is the first complete introduction to process control that fully integrates software tools -- enabling professionals and students to master critical techniques hands-on, through computer simulations based on the popular MATLAB environment.

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