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If you are a process design, quality control, information systems, or automation engineer in the biopharmaceutical, brewing, or bio-fuel industry, this handy resource will help you define, develop, and apply a virtual plant, model predictive control, first-principle models, neural networks, and multivariate statistical process control. The synergistic knowledge discovery on bench top or pilot plant scale can be ported to industrial scale processes. This learning process is consistent with the intent in the Process Analyzer and Process Control Tools sections of the FDA's Guidance for Industry PAT <I>A Framework for Innovative Pharmaceutical Development, Manufacturing and Quality Assurance. [[link](#)]

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New Directions in Bioprocess Modeling and Control:
Maximizing Process Analytical Technology Benefits
Author(s): Michael A. Boudreau, Gregory K. McMillan
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