



Distillation Control & Optimization: Operation Fundamentals through Software Control (Mechanical Engineering)

By Alessandro Brambilla

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The latest methodologies for the control of distillation processes

Written by an expert with more than 30 years of industry experience, *Distillation Control and Optimization: Operation Fundamentals through Software Control* is filled with proven solutions to control problems in distillation processes. This authoritative guide discusses regulatory control and the development of advanced control systems such as multivariable predictive control. Realworld examples of commercial units analyzed using the results of rigorous simulation models are included. Detailed diagrams illustrate the proven methods presented in this practical resource.

COVERAGE INCLUDES:

- Two-product columns
- Multiproduct columns
- Liquid and vapor sidestream columns
- Column operating pressure
- Column capacity and efficiency
- Two-product column basic control
- Two-product column quality control
- Disturbances to the column
- Multiproduct column control
- Crude oil fractionators control
- Multivariable predictive control technology
- Inferentials in distillation
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Editorial Review

About the Author

Alessandro Brambilla is Professor of Chemical Engineering at the University of Pisa and a process chemical engineer and application and quality supervisor at ALPHA Process Control. He was a full professor and head of the Chemical Engineering Department and director of the Chemical Engineering Program and PhD courses at the University of Pisa. Dr. Brambilla was also a visiting professor at the University of California, Davis, and at the University of Wisconsin, Madison. He teaches many training courses to engineers in industry (refining and petrochemical) and from companies offering services for advanced control applications.

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