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capturing critical system behaviors fit the model parameters based on that data and statistically characterize the resulting model The author has used the material in the undergraduate unit operations lab course and in advanced control applications

Design of Simple and Robust Process Plants J. L. A. Koolen, 2001-10-15 The approaches to design process plants described in this book lead to process designs which require 30-40% less capital than usual The book is unique since it is the first comprehensive work addressing both the total process design and operational approach Technological developments during the last decade made the design of really competitive processes possible Mechanical developments have resulted in reliable and robust equipment Process developments have created opportunities to minimize the amount of equipment furthermore different logistic approaches integration of process functionality and intensification of the unit operations are possible Computer and control technology allows remote control operation and first pass prime production In this work design philosophies are discussed and their implementation is shown as a structured approach for planned and existing plants Numerous examples are presented to illustrate what simple design can create The work is intended for experienced engineers and managers involved in process design control design and operation but is also interesting for students Project engineers and managers have to apply these new approaches to achieve competitive processes A process plant should meet the simplicity and robustness of a household refrigerator This book has been written to allow to achieve this aim Chairman of the Judges Award from IChemE 2003

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Continuous Process Control Paul G. Friedmann, 1996 Addressing the needs of engineers interested in controlling a continuous process and designed to help technicians, salespeople, students, managers, and others handle real-life industrial concerns, this book belongs in every library. Divided into two parts, Part I provides a general background on the elements needed for continuous process control. Measurements, control systems, and final control elements are discussed. Simple and complex control techniques, including model predictive control, are described in detail. Part II shows how these elements are combined to control actual processes. Control strategies are explained and related to process problems and objectives. Specific control designs needed to implement the strategies are described. These designs address such problems as difficult measurements, frequent disturbances, and interacting loops.

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