



Simultaneous Design and Control of Chemical Plants: A robust modeling approach

Luis Ricardez-Sandoval

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This book presents a set of methods proposed for the simultaneous design and control of chemical processes under the effect of external perturbations and parametric uncertainties. The proposed methodologies borrow tools from robust control theory to test the process stability and to calculate bounds on the worst-case process output variability and the process constraints. Thus, the proposed methods avoid the solution of dynamic optimization problems which are computationally expensive and even prohibitive for the design and control of processes with several process units. The proposed methods were applied to a mixing tank process and to the Tennessee Eastman process. Due to the robust approach, the final design obtained by these methods may be conservative. However, the computational demand required by the present approach is several orders of magnitude lower than that required by a dynamic optimization-based methodology. Therefore, the present approach is a practical and computationally efficient tool that can be used for the simultaneous design and control of chemical plants.

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