



## Chemical Process: Design and Integration

By Robin Smith

Wiley India Pvt. Ltd., 2010. Softcover. Condition: New. 5th or later edition. This book deals with the design and integration of chemical processes, emphasizing the conceptual issues that are fundamental to the creation of the process. Chemical process design requires the selection of a series of processing steps and their integration to form a complete manufacturing system. The text emphasizes both the design and selection of the steps as individual operations and their integration. Also, the process will normally operate as part of an integrated manufacturing site consisting of a number of processes serviced by a common utility system. The design of utility systems has been dealt with in the text so that the interactions between processes and the utility system and interactions between different processes through the utility system can be exploited to maximize the performance of the site as a whole. Contents:- Preface Acknowledgements Nomenclature ? The Nature of Chemical Process Design and Integration ? Process Economics ? Optimization ? Thermodynamic Properties and Phase Equilibrium ? Choice of Reactor I - Reactor Performance ? Choice of Reactor II - Reactor Conditions ? Choice of Reactor III - Reactor Configuration ? Choice of Separator for Heterogeneous Mixtures ? Choice...



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