



Process Design and Engineering Practice

Donald R. Woods

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This book provides a range of co-ordinated heuristics and engineering rules of thumb in selecting process equipment to transport, use and exchange energy, separate species, and react chemicals. Data is organized systematically on a need-to-know basis. An extensive set of illustrated procedures demonstrate the implications of a variety of design options, and the author discusses order-of-magnitude sizing procedures that can be done consistently in about five minutes. Also outlined are principles for selecting from among processing options for transportation of gases, liquids and solids; for selection of drives and heat exchangers; for separation of homogenous phases; and for reactors. Practical problems and fully worked examples with applications in a broad range of industries are provided with the intention of bridging the gap between fundamentals and practice. The book also demonstrates to students how to apply the law of optimum sloppiness and gain experience designing processes, trouble-shooting faults and analyzing existing plants to see how they can be improved. This book is intended for chemical engineers involved in the design of process and equipment selections.

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