SUPPLEMENTARY PROBLEMS FOR BASIC PRINCIPLES AND CALCULATIONS IN CHEMICAL ENGINEERING 8TH EDITION

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PREFACE

For a long time students have sought out solved problems in addition to those provided as examples in the textbook. Their sources of such problems are related texts and old homework and examination files, but these alternate sources are usually inconvenient to find and use.

To meet this demand we compiled in this supplement additional problems with detailed solutions, problems that are quite similar to those in the text. In addition, we have added numerous unsolved problems with answers (a frequent request for homework problem assignments). Each set of problems conforms to the arrangement in my book "Basic Principles and Calculations in Chemical Engineering, 8th edition, published by Prentice Hall. The notation used in the problems and solutions is the same as in the textbook.

To acquaint students with process equipment usually shown as black boxes in example problems, a series of pictures many of which are animated, line diagrams, and short explanations have been inserted at appropriate places in the supplement. How can you use this supplement? For those individuals who after reading a problem look first for a similar problem with a worked out solution, this supplement offers numerous examples to follow. For those who have some confidence in their ability to solve problems but just want to hone their skills by comparing their answers with known solutions, enough problems with answers are given to satisfy the most exacting reader before moving on to the next topic. Students who want to prepare for exams will find the problems with answers helpful. Finally, those individuals who have trouble in developing consistent and fruitful strategies for problem solving can make use of the detail solutions provided to improve their abilities.

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