In summary, this book seems to fill no special void in the literature on computer modeling and simulation. Although the intended purpose clearly stated in Chapter 1 is to present "material that every engineer should know, and not a complete discussion of everything an engineer should know about modeling," the text lacks sufficient detail to act as a guide for modeling and simulation.

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Gas Purification

By A. L. Kohl and F. C. Riesenfeld Gulf Publishing Co., 1985, 4th Ed., $59.95.

Over a twenty-five year period *Gas Purification* has grown into a classic work containing process and operating data that is widely scattered in the literature and in a few cases almost unobtainable. It is indispensable to those interested in commercially significant gas purification and dehydration processes. The coverage is almost encyclopedic although a review of the references suggests that this edition was revised in late 1982; references to 1983 and 1984 literature are quite sparse.

A comparison of the Fourth Edition chapter by chapter with my well thumbed Second Edition shows an increase in size of roughly 20%. However, the revisions are concentrated in only five chapters: Chapter 2, Alkanolamines for H_2S and CO_2 removal; Chapter 7, Sulfur Dioxide removal; Chapter 9, Liquid Phase Oxidation Processes for Removal of Sulfur Compounds; Chapter 13, Catalytic Conversion of Gas Impurities; and Chapter 14, Miscellaneous Gas-Purification Techniques. Unfortunately, this last chapter is a melange of absorption, low temperature distillation, physical solvents and membrane permeation processes. Chapter 14 is definitely not up to the standard set elsewhere in the book.

The emphasis in this edition as in previous ones is on practical experience. This is not the book to use to design a gas treating process or to make a process selection for a given duty. Indeed, it can be misleading in both these areas. However, if it's practical data you want, this is the book.

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