

**The Properties of Gases and Liquids,** Second Edition, Robert C. Reid and Thomas K. Sherwood, McGraw-Hill, New York (1966). 646 pages.

This work represents a tremendous amount of effort to bring together in a concise form information dealing with the physical, thermodynamic, and transport properties of gases and liquids. The contents of this compilation comprise the results of a comprehensive collection and a critical review of methods published in the literature for the prediction of fluid properties. The authors summarize the results of this survey in numerous tables, plots, and analytical relationships which are complimented with a detailed presentation, discussion, and recommendation of the best method available for the establishment of a specific property.

The material presented is a follow-up of their first edition which has already proved itself invaluable. The substance of this edition deals also with the properties of mixtures. Typical illustrative examples, frequently presented, make this book particularly attractive for a quick approach to the utilization of the methods reviewed. The substances considered are both inorganic and organic in nature and are treated over wide ranges of temperature and pressure. Fundamental predictive methods based on statistical mechanics are also included.

The authors have managed to effect an up-to-date version of this book. The circumstances, which necessitated the present edition, will cause a need for further revision within a few years. The International Critical Tables published in 1928 were a forerunner to the present work. Unfortunately, the Tables were never revised and consequently have lost a part of their utility. Furthermore, the present book can serve as a text because it elucidates the methods for estimation of physical properties. The ready availability of methods of estimation of physical properties should prove extremely useful in both the industrial and academic fields.

In many ways, this book qualifies as a good text and should be on the book shelf of every practicing chemical engineer. In particular, this book becomes indispensable to individuals engaged in design, development, and research work.

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