

# REINHOLD

## CHEMICAL ENGINEERING SERIES

Consulting Editor: PROFESSOR CHARLES R. WILKE,  
University of California at Berkeley.

### COMPUTATION OF MULTISTAGE SEPARATION PROCESSES

by DONALD N. HANSON and GRAHAM F. SOMERVILLE, both of the University of California at Berkeley, and JOHN H. DUFFIN, U.S. Naval Postgraduate School, Monterey, California. The first book to present the mathematics of stagewise separation processes in the form of Fortran computer programs used to solve separation problems in vapor-liquid processes and liquid-liquid extraction. It will prove invaluable as a text for advanced courses in separation operations.

*Ready July 1962. Price and size to be announced.*

### FLOW OF FLUIDS THROUGH POROUS MATERIALS

by R. E. COLLINS, University of Houston. A unified treatment of all aspects of the flow of fluids through porous materials. This book is valuable to petroleum engineers, chemical engineers, civil engineers, and soil scientists. 1961. 280 pages. \$12.50

### AN INTRODUCTION TO CHEMICAL ENGINEERING

by CHARLES E. LITTLEJOHN and GEORGE F. MEENAGHAN, Clemson College, Clemson, S.C. This book emphasizes the fundamentals upon which chemical engineering theory is based. It contains a wealth of material on the professional aspects of the field unavailable in other standard texts. 1959. 288 pages. \$6.50

### FLUIDIZATION AND FLUID-PARTICLE SYSTEMS

by FREDERICK A. ZENZ and DONALD F. OTHMER, both of Polytechnic Institute of Brooklyn. This comprehensive work provides a wealth of data on fluid-particle operations answering problems common to process industries. 1960. 523 pages. \$15.00

### DISTILLATION: PRINCIPLES AND DESIGN PROCEDURES

by ROBERT J. HENGSTEBECK, American Oil Company. Here is all the information needed to design any distillation column for which vapor-liquid equilibrium data is available or can be estimated. New material is presented on methods for calculating the "splits" of the "non-distributed" components in multi-component distillations, and for minimizing trial calculations for flash vaporizations. 1961. 380 pages. \$11.50

### FILTRATION

by GEORGE D. DICKEY, P.E., Consultant. A modern account of solid-liquid separation in wet processes: water, industrial products and wastes. It offers a comprehensive study of filtering, including a summary of mathematical theories and formulas and a short history of filtration development by gravity, vacuum, pressure, and centrifugal force. 1961. 364 pages. \$12.00

### Two Other Outstanding Chemical Engineering Books

#### RIEGEL'S INDUSTRIAL CHEMISTRY, New Sixth Edition

Edited by JAMES O. KENT, West Virginia University, with the support of a large number of collaborators. From materials handling to product application, this book offers a handy cross-section presentation of current practices in the major chemical and process industries. A large number of collaborators, all recognized experts in their fields, contribute to make this one of the most authoritative works of its kind. 1962. *Approximately 950 pages. Special pre-publication price through September 30, 1962: \$17.50. Price after September 30, 1962: \$20.00*

#### HANDBOOK OF VECTOR AND POLYADIC ANALYSIS

by THOMAS B. DREW, Columbia University. A probing treatment of the vector and tensor concepts necessary in fluid dynamics, diffusion theory, electromagnetic theory, and heat transmission. It is invaluable as a text for engineering students at the advanced undergraduate and graduate levels. 1961. 112 pages. \$5.50

**REINHOLD BOOK DIVISION**

**430 Park Avenue/New York 22, New York**