

4 important publications from McGraw-Hill

1. MOMENTUM, HEAT, AND MASS TRANSFER

By C. O. BENNETT, Manager, Process Research and Development, The Lummus Company; and J. E. MYERS, Purdue University. McGraw-Hill Series in Chemical Engineering. 691 pages, \$13.50

An outstanding new modern introduction to chemical engineering. The authors have set forth the fundamentals of momentum, heat, and mass transfer and have applied them to engineering problems, particularly those in the process industry. The manner of exposition makes this book especially suitable for an undergraduate text in engineering. Lucid writing results in comprehensive yet concise coverage of the fundamentals of momentum, heat, and mass transfer, with a number of applications in engineering in general, and chemical engineering in particular. A discussion of the unit operations is included; but the order of the subject matter has been determined more by the structure of the theory than by the usual division into unit operations.

2. CHEMICAL ENGINEERING CALCULATIONS:

By ERNEST J. HENLEY, Stevens Institute of Technology, and HERMAN BIEBER, Esso Research and Engineering Company. McGraw-Hill Series in Chemical Engineering. 441 pages, \$9.50

Fundamental concepts, rather than technology and empiricism, are stressed throughout. Engineering techniques such as graphical methods, approximations, trial and error of the calculus is made throughout. A unique feature of this book is its inclusive coverage of thermodynamics, material balances, phase equilibrium, and chemical reaction equilibrium. The first nine chapters provide a rudimentary treatise in problem solving techniques, as illustrated by material balance calculations. Next a detailed exposition of the First Law is offered, and finally illustrations involving all previously discussed disciplines are given. The Second Law is used, and derived in the Appendix, but is not discussed in detail.

3. DIGITAL COMPUTATION FOR CHEMICAL ENGINEERS

By LEON LAPIDUS, Princeton University. McGraw-Hill Series in Chemical Engineering. 432 pages, \$11.50

Discusses various areas of digital computer mathematics of importance to the chemical engineer. The increasing emphasis on complex calculations for chemical engineering analysis has led to the increasing use of digital and analog computers. This text is designed specifically for the teaching of digital techniques in the chemical engineering curriculum.

4. ENGINEERING AS A CAREER, Second Edition

By RALPH J. SMITH, Stanford University. 424 pages, \$4.95 (Cloth), \$3.50 (Paper).

This introductory orientation and problem text in engineering provides a comprehensive and factual picture of an engineer's duties, qualifications and training needed, and career opportunities available. The author explains the engineering profession in terms of functions as well as branches. New chapters included: "Adjustment to College" and "How To Be a Better Student". New examples, illustrations; material updated.

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