

7 on chemical engineering:

BALZHISER
et al

WILLIAMS

PERLMUTTER

BRIAN

CHEMICAL ENGINEERING THERMODYNAMICS

Richard E. Balzhiser, University of Michigan; **Michael R. Samuels** and **John D. Eliassen**, both of the University of Delaware

NEW—provides an integrated introduction to classical mechanical and chemical thermodynamics for undergraduate chemical engineering students.

Teacher's Manual available.

January 1972 approx. 688 pp. (12860-3)

POLYMER SCIENCE AND ENGINEERING

David J. Williams, The City College of the City University of New York

Succeeds in bridging the gap between the fundamentals of non-macromolecular disciplines and the underlying concepts of polymer science and engineering.

September 1971 401 pp. (68563-6)

STABILITY OF CHEMICAL REACTORS

Daniel D. Perlmutter, University of Pennsylvania

NEW—comprehensive and detailed treatment of chemical reactor stability. Emphasizes the engineering uses derived from rigorous definitions. Develops results for a variety of lumped- and distributed- parameter models.

January 1972 approx. 320 pp. (83996-9)

STAGED CASCADES IN CHEMICAL PROCESSES

P. L. Thibaut Brian, Massachusetts Institute of Technology

NEW—introduction to cascade theory of staged processes. Assumes no previous knowledge of thermo-dynamics or transport theory. Ideal for college freshmen and sophomores.

January 1972 approx. 272 pp. (84028-0)

DOUGLAS

PROCESS DYNAMICS AND CONTROL. VOL I: ANALYSIS OF DYNAMIC SYSTEMS VOL II: CONTROL SYSTEM SYNTHESIS

J. M. Douglas, University of Massachusetts

Contrasts steady state versus dynamic operation of chemical processes. Surveys the various ideas that can be used to develop control systems.

Solutions Manual available.

Vol I: January 1972 approx. 416 pp. (72304-9)

Vol II: January 1972 approx. 592 pp. (72305-6)

MEISSNER

PROCESSES AND SYSTEMS IN INDUSTRIAL CHEMISTRY

Herman P. Meissner, Massachusetts Institute of Technology

Focuses on the definition and quantitative study of factors determining the form of processes involving chemical transformations.

Solutions Manual available.

1971 386 pp. (72332-0)

NUSSBAUM

APPLIED GROUP THEORY FOR CHEMISTS, PHYSICISTS AND ENGINEERS

Allen Nussbaum, University of Minnesota

The first book to show the reader in very simple language how to use group theory in a systematic fashion in a variety of fields: crystallography, chemistry, spectroscopy, atomic and solid state physics, and theory of vibrations.

May 1971 285 pp. (04083-2)



**from
prentice-hall**

box 903 englewood cliffs n.j. 07632