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New for 1984

## **ELEMENTARY CHEMICAL ENGINEERING**, Second Edition

**Max S. Peters**, University of Colorado at Boulder  
1984, 384 pages, (0-07-049586-6)  
Solutions Manual (0-07-049588-2)

This widely used text has been revised and is now even more valuable to students being exposed to the field for the first time. With a new emphasis on the quantitative aspects of chemical engineering, the second edition builds on the successful approach of the first edition in presenting a *unified picture of chemical engineering* that concentrates on the development, applications, and interrelationships of the basic principles.

Throughout the second edition, the author incorporates SI units with abundant applications. A new, comprehensive appendix covers the background and use of SI units, along with an exhaustive table for converting U.S. units to SI units. Additional problems have been included in the text, along with practical problems intended for computer solution and printout.

## **PROJECT EVALUATION IN THE CHEMICAL PROCESS INDUSTRIES**

**J. Frank Valle-Riestra**, Dow Chemical Company and the University of California, Berkeley  
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Solutions Manual (0-07-066841-8)

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**C.D. Holland**, Texas A&M University, and **A.I. Liapis**, University of Missouri at Rolla  
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**Ray Fahien**, University of Florida  
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Solutions Manual (0-07-019892-6)

This is the only book in the field that simultaneously treats the one-dimensional transport of heat, momentum, and mass in detail before examining the more complex subject of multi-dimensional transport. Applications are made to typical engineering problems.

## **COST AND OPTIMIZATION ENGINEERING**, Second Edition

**F.C. Jelen**, Fellow of the American Association of Cost Engineers, and **James H. Black**, University of Alabama and Fellow of the American Association of Cost Engineers  
1983, 530 pages, (0-07-032331-3)  
Solutions Manual (0-07-032332-1)

Featuring the work of contributors from both industry and education, this text presents up-to-date cost data plus complete coverage of important, timely topics. The second edition examines new tax laws, inflation, a new chapter on risk analysis, SI units, and much more.

## **COMBUSTION DYNAMICS: The Dynamics of Chemically Reacting Fluids**

**Tau-Yi Toong**, Massachusetts Institute of Technology  
1983, 352 pages, (0-07-064976-6)

By extensively examining a selection of problems ranging from simple to complex, this new text explains the physics involved in the development of interactions between chemical reaction and fluid flows. It emphasizes physical elucidation and presents clear discussions of analytical techniques.



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