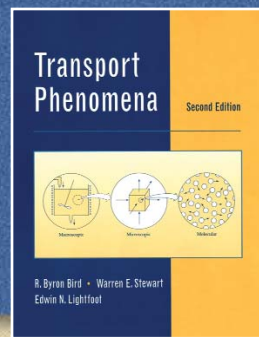
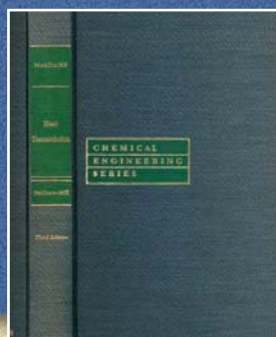


30 Authors and Their Groundbreaking Chemical Engineering Books



The literature of chemical engineering has defined the discipline, with an impact as powerful as any of the profession's engineering accomplishments. The authors of these books have created a major part of the heritage and shared experience of all chemical engineers.

AIChE's Centennial Celebration Committee has identified a selection of authors who have given these important chemical engineering books to the profession.

R. BYRON BIRD
WARREN E. STEWART
EDWIN N. LIGHTFOOT



From left, Bird, Stewart and Lightfoot in 2001, with leather-bound 2nd Editions — and 62nd printings — of *Transport Phenomena*.

TRANSPORT PHENOMENA

Publisher: Wiley
First edition: 1960
Latest edition: 2008 (2nd- Revised; 62 1st-edition printings between 1960 and 2001)

DONALD R. COUGHANOWR
PROCESS SYSTEMS ANALYSIS AND CONTROL (with Lowell Koppel)
Publisher: McGraw-Hill
First edition: 1965
Latest edition: 2008 (3rd)

RICHARD M. FELDER
RONALD W. ROUSSEAU



Richard Felder and Ronald Rousseau

ELEMENTARY PRINCIPLES OF CHEMICAL PROCESSES
Publisher: Wiley
First edition: 1978
Latest edition: 2000 (3rd)

H. SCOTT FOGLER



ELEMENTS OF CHEMICAL REACTION ENGINEERING
Publisher: Prentice Hall
First edition: 1986
Latest edition: 2005 (4th)

PHILIP H. GROGGINS*
UNIT PROCESSES IN ORGANIC SYNTHESIS

Publisher: McGraw-Hill
First edition: 1935
Latest edition: 1952 (4th)

DAVID M. HIMMELBLAU
BASIC PRINCIPLES AND CALCULATIONS



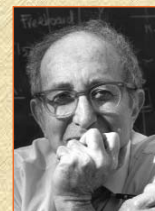
IN CHEMICAL ENGINEERING
Publisher: Prentice Hall
First edition: 1962
Latest edition: 2003 (7th)

OLAF A. HOUGEN*
KENNETH WATSON*
CHEMICAL PROCESS PRINCIPLES, VOL. 1: MATERIAL AND ENERGY BALANCES
Publisher: Wiley
Published: 1943

CHEMICAL PROCESS PRINCIPLES, VOL. 2: THERMODYNAMICS
Publisher: Wiley, Chapman & Hall
First edition: 1947
Latest printing: 1949 (5th)

CHEMICAL PROCESS PRINCIPLES, VOL. 3: KINETICS & CATALYSIS
Publisher: Wiley
First edition: 1947
Latest printing: 1949 (3rd)

OCTAVE LEVENSPIEL



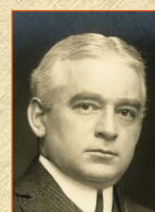
CHEMICAL REACTION ENGINEERING
Publisher: Wiley
First edition: 1962
Latest edition: 1998 (3rd)

WARREN K. LEWIS*



INDUSTRIAL STOICHIOMETRY
(with Arthur Radasch)
Publisher: McGraw-Hill
First edition: 1923
Latest edition: 1937 (3rd; with Edward R. Gilliland as co-author)

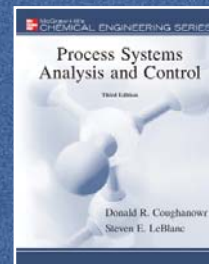
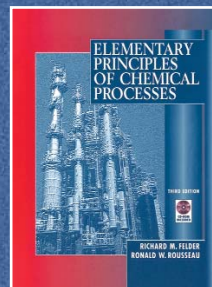
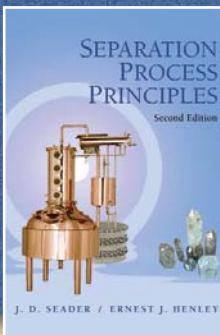
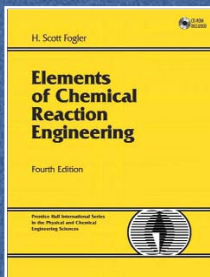
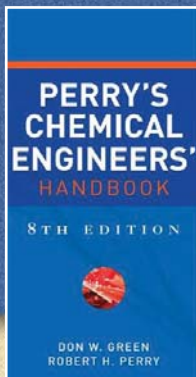
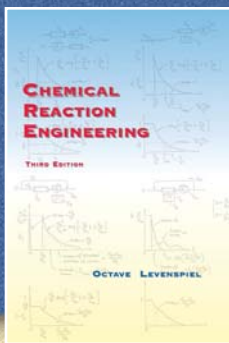
WARREN K. LEWIS*
WILLIAM H. McADAMS*
WILLIAM H. WALKER*



PRINCIPLES OF CHEMICAL ENGINEERING
Publisher: McGraw-Hill
First edition: 1923
Latest edition: 1937 (3rd; with Edward R. Gilliland as co-author)

Portrait of William H. Walker, William Haynes Portrait Collection, Courtesy of Chemical Heritage Foundation Collections.

WILLIAM H. McADAMS*
HEAT TRANSMISSION
Publisher: McGraw-Hill Series in Chemical Engineering
First edition: 1933
Latest edition: 1954 (3rd)



WARREN McCABE*

ELEMENTS OF CHEMICAL ENGINEERING

(with Walter L. Badger)
Publisher: McGraw-Hill
First edition: 1931
Latest edition: 1936 (2nd)

UNIT OPERATIONS OF CHEMICAL ENGINEERING (with Julian Smith and Peter Harriott)

Publisher: McGraw-Hill
First edition: 1956
Latest edition: 2004 (7th)

DONALD F. OTHMER*



KIRK-OTHMER ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY (with Raymond Kirk)
Publisher: Wiley Blackwell
First edition: 1947
Latest edition: 2001 (5th)

Donald Othmer, Othmer Collection, Courtesy of Chemical Heritage Foundation Collections.

JOHN H. PERRY*

CHEMICAL ENGINEERS' HANDBOOK (AKA "PERRY'S HANDBOOK")

(with Robert H. Perry)
Publisher: McGraw-Hill
First edition: 1934
Latest edition: 2007 (8th)

CLARK ROBINSON*

ELEMENTS OF FRACTIONAL DISTILLATION

Publisher: McGraw-Hill Books / Blatter Press
First edition: 1922
Latest edition: 1939 (3rd)

STANLEY I. SANDLER



CHEMICAL, BIOCHEMICAL, AND ENGINEERING THERMODYNAMICS
Publisher: Wiley
First edition: 1977
Latest edition: 2006 (4th)

J. D. (BOB) SEADER



SEPARATION PROCESS PRINCIPLES

(with Ernest J. Henley)
Publisher: Wiley
First edition: 1998
Latest edition: 2005 (2nd)

WARREN D. SEIDER



INTRODUCTION TO CHEMICAL ENGINEERING AND COMPUTER CALCULATIONS

(with Alan L. Myers)
Publisher: Prentice Hall
Published: 1976

THOMAS SHERWOOD*

ABSORPTION AND EXTRACTION

Publisher: McGraw-Hill
First edition: 1937
Latest edition: 1952 (2nd; co-authored with Robert L. Pigford)

APPLIED MATHEMATICS IN CHEMICAL ENGINEERING (with Charles Reed)

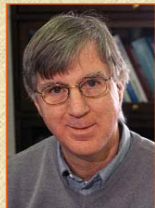
Publisher: McGraw-Hill
First edition: 1939
Latest edition: 1957 (4th; with Harold S. Mickley as senior author)

NORRIS SHREVE*

CHEMICAL PROCESS INDUSTRIES

Publisher: McGraw-Hill Professional
First edition: 1945
Latest edition: 1991 (5th)

MICHAEL SHULER



BIOPROCESS ENGINEERING: BASIC CONCEPTS

(with Fikret Kargi)
Publisher: Prentice Hall
First edition: 1992
Latest edition: 2002 (2nd)

JOE MAUK SMITH*

INTRODUCTION TO CHEMICAL ENGINEERING THERMODYNAMICS

Publisher: McGraw-Hill
First edition: 1949
Latest edition: 2001 (6th)
(Hendrick C. van Ness became co-author with the 1959 second edition)

ROBERT E. TREYBAL*

MASS TRANSFER OPERATIONS

Publisher: McGraw-Hill
First edition: 1955
Latest edition: 1980 (3rd)

FRANK VILBRANDT*

CHEMICAL ENGINEERING PLANT DESIGN

Publisher: McGraw-Hill
First edition: 1934
Latest edition: 1959 (4th)

RALPH T. YANG



GAS SEPARATION BY ADSORPTION PROCESSES

Publisher: Imperial College Press
Published: 1986
Latest reprint: 1997

FRED ZENZ

FLUIDIZATION AND FLUID-PARTICLE SYSTEMS (with Donald F. Othmer)

Publisher: Reinhold
Published: 1960

**Indicates Foundation Age recognitions (i.e., engineers who had attained the equivalent of AIChE Senior Member status during or prior to World War II).*

First editions of many of these groundbreaking books will be on display at the Chemical Heritage Foundation's Othmer Library of Chemical History — during AIChE's 2008 Centennial Annual Meeting in Philadelphia (see pg. 23 for information).

More for your reading list:
Learn more about chemical engineering highlights of the past 100 years at AIChE's Centennial Web site: www.aiche.org/100/