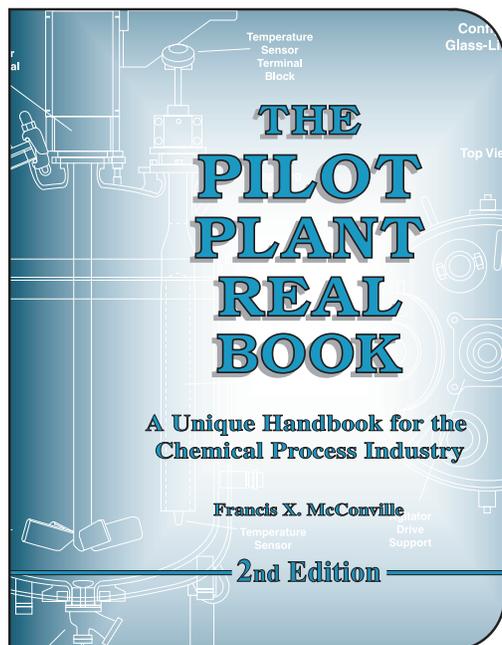




FXM ENGINEERING & DESIGN

# The Pilot Plant Real Book

by Francis X. McConville



The *Pilot Plant Real Book*, by Francis X. McConville, is a unique and highly practical handbook for chemists, chemical engineers, technicians, and students preparing to enter industry. It is designed for workers in process R&D, kilo-labs and pilot plants, or involved in tech transfer to manufacturing.

The revised and expanded 2nd edition (2007) is richly illustrated with over 200 distinctive graphs, charts, tables and diagrams, and contains countless tips and techniques for the safe and effective scale-up of new chemical processes.

Readers will find:

- Properties of common solvents, gases, reagents, buffers, and heat transfer fluids... azeotropes, flammability data, pKa, solubility and chemical compatibility tables... conversions and formulae...
  - Clear, concise monographs on chemical reactors, heat transfer, temperature control, agitation, distillation, extraction, crystallization, filtration and drying... TCUs, chillers, motors, pumps, air compressors, electric power, intrinsic safety and process control...
  - Safe practices for handling flammable solvents, compressed gases, hazardous substances and electrical equipment...
- The role of the pilot plant in chemical development, guidelines for developing scaleable reactions, process safety screening, Haz-Ops, cGMP, tips for maximizing efficiency... and much more!

Dr. Neal Anderson, author of *Practical Process R&D* calls it “...a masterful book...”. Dr. Trevor Laird, of Scientific Update says, “No pilot plant should be without it!”. Dr. Brendon Pearl of Rhodia-Chirex says, “I only wish such a text had been available when I set out on my rocky path of development.”

*The Pilot Plant Real Book, 2nd ed.* (ISBN 0-9721769-2-6) is available directly from the publisher at [www.pprbook.com](http://www.pprbook.com) and through select vendors of scientific books – or ask your favorite bookstore to order it for you. 320 pages, 8.5 x 11 inches, two-color, robust lay-flat binding. Includes an exhaustive index, bibliography and recommended reading list. Retail \$US 174.95.

Learn more at: <http://www.pprbook.com>.

About the author: **Francis X. McConville** holds a BS degree in Chemistry and MS degrees in both Biotechnology and Chemical Engineering from Worcester Polytechnic Institute. He has worked in the chemical industry and related fields for more than 30 years, including 14 years as a process engineer at Sepracor, Inc. He has helped scale up chemical and biochemical processes in Asia, Europe and North America. He now works as a consultant and training instructor and lives with his family in Worcester, Massachusetts.