



FXM ENGINEERING & DESIGN

## BOOK INFORMATION SHEET

- TITLE:** **The Pilot Plant Real Book, 2nd Edition**  
A Unique Handbook for the Chemical Process Industry
- AUTHOR:** Francis X. McConville
- PUBLISHER:** FXM Engineering & Design  
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SAN 254-721X
- CATEGORY:** Chemistry / Chemical Engineering / Reference (BISAC REF028000)
- PUBLICATION DATE:** January 2007
- PRICE:** \$US 114.95
- No. PAGES:** 320
- FINISHED SIZE:** 8.5 x 11 inches
- BINDING:** Lay-Flat Perfect
- ISBN:** 0-9721769-2-6
- LCC:** 2006931624
- ILLUSTRATIONS:** Over 200 2-color charts, graphs and illustrations
- BACK MATTER:** Bibliography, recommended reading, index
- DESCRIPTION:** A unique and highly practical handbook for chemists, chemical engineers, technicians, and students preparing to enter industry. It is designed for those working in chemical process development, or tech transfer to pilot or commercial plants. Contents include physical property data for chemicals, solvents, gases and materials; concise monographs on key concepts such as heat transfer, temperature control, agitation, distillation, crystallization, and process safety screening; equipment data; safety information; important pointers and guidelines for developing scalable reactions; tips and techniques for effective process development.
- INTENDED AUDIENCE:** Practicing chemists, chemical engineers and technicians, as well as students and graduates preparing to enter the fine chemical industry.
- AUTHOR'S BACKGROUND:** Francis X. McConville holds a BS in Chemistry and MS degrees in both Biotechnology and Chemical Engineering from Worcester Polytechnic Institute. He has been involved in the chemical and related fields for nearly 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 works as a consultant and training instructor and lives with his family in Massachusetts.
- DISTRIBUTION:** The Pilot Plant Real Book is available directly from the publisher and from select vendors of scientific books. Dealer inquiries welcome.

The real beauty of "The Pilot Plant Real Book" is that process engineers working with a 20 year old process unit can still learn something from the wealth of knowledge being shared. The book is divided into the following main sections: The Pilot Plant Equipment and Operations Liquid Handling Heat Transfer Electricity and Instrumentation Solvents Compressed Gas Chemical Data Chemical Hygiene and Safety Material Selection Miscellaneous. Layout: No doubt a lot of thought went into the book's layout. It even includes double spiral binding so it lays flat while your hands will be free. The Pilot Plant Real Book by Francis McConville is subtitled "A Unique Handbook", and it's been recommended by readers with experience in that unique environment. For chemists who want to brush up on their biology, Joseph Cannon's Pharmacology for Chemists has also been recommended, and it looks like a completely new version has been published under the same title. Two weighty references are the Handbook of Toxicologic Pathology, and the more recently updated Comprehensive Guide to Toxicology in Nonclinical Drug Development (reader-recommended). Another book on toxicology in drug development is Preclinical Safety Evaluation of Biopharmaceuticals: A Science-Based Approach to Facilitating Clinical Trials, from 2008.