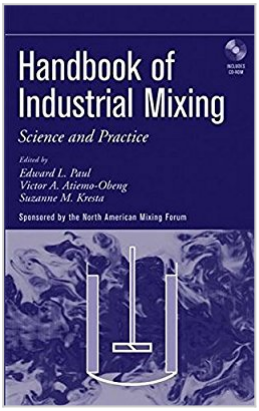

Handbook of Industrial Mixing: Science and Practice

By Edward L. Paul, Victor Atiemo-Obeng, Suzanne M. Kresta, North American Mixing Forum

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Handbook of Industrial Mixing will explain the difference and uses of a variety of mixers including gear mixers, top entry mixers, side entry mixers, bottom entry mixers, on-line mixers, and submerged mixers The Handbook discusses the trade-offs among various mixers, concentrating on which might be considered for a particular process. Handbook of Industrial Mixing explains industrial mixers in a clear concise manner, and also:
* Contains a CD-ROM with video clips showing different type of mixers in action and a overview of their uses.
* Gives practical insights by the top professional in the field.
* Details applications in key industries.
* Provides the professional with information he did receive in school

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Editorial Review

Review
"…will prove invaluable to anyone faced with a mixing analysis or mixing design problem. The editors and authors have produced a very useful handbook." (*AIChE Journal*, April 2006)

"...useful for guidance and direction...a good overview of the commonly available types of equipment used in industry today." (*IEEE Electrical Insulation Magazine*, September/October 2005)

"...a comprehensive handbook that provides excellent coverage on the fundamentals, design, and applications of current mixing technology…" (*IEEE Electrical Insulation Magazine*, January/February 2005)

“...the most comprehensive, definitive and up-to-date treatise on industrial mixing available anywhere...a 'must buy' for all engineers whose work regularly involves mixing or mixing-related problems.” (*Chemical Engineering Progress*, August 2004)

“A very worthwhile book” (*The Chemical Engineer*, September 2004)

“…is the most comprehensive of the mixing handbooks currently available...a must have for any company doing mixing at the industrial level." (*E-STREAMS*, July 2004)

From the Back Cover
Practical insights from the leading professionals in the field

While process objectives are critical to the successful manufacturing of a product, if the mixing scale-up fails to produce the required results, the costs of manufacturing can increase significantly. Although there are several industrial operations in which mixing requirements are readily scaled up from established correlations, many operations require a more thorough evaluation. This comprehensive handbook presents the latest methods for recognizing these more complex operations and offers alternative mixing designs for critical applications. The core mixing design topics discussed are:

- Homogeneous blending in tanks and in-line mixers
- Dispersion of gases in liquids with subsequent mass transfer
- Suspension and distribution of solids in liquids
- Liquid-liquid dispersions
- Heat transfer
- Reactions, both homogeneous and heterogeneous

Along with focusing on industrial design and the operation of mixing equipment, the Handbook of Industrial Mixing contains summaries of the foundations on which these applications are based. In order to accomplish this, most chapters are written by both an industrialist and an academic. Intended for the practicing engineer who needs to both identify and solve mixing problems, this book also provides concise discussions on theoretical background and uses many illustrative examples when covering applications, and it includes a CD-ROM that contains over fifty video clips and animations of mixing processes. These clips are accompanied by explanatory text.

About the Author
EDWARD L. PAUL has over thirty-five years' experience in process development with Merck & Co., Inc.

VICTOR A. ATIEMO-OBENG is a scientist in the Engineering Science and Market Development department at The Dow Chemical Company.

SUZANNE M. KRESTA is a professor in the Department of Chemical and Materials Engineering at the University of Alberta.

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