



Crystallization of Organic Compounds: An Industrial Perspective

Hsien-Hsin Tung, Edward L. Paul, Michael Midler, James A. McCauley

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Filled with industrial examples emphasizing the practical applications of crystallization methodologies

Based on the authors' hands-on experiences as process engineers at Merck, *Crystallization of Organic Compounds* guides readers through the practical aspects of crystallization. It uses plenty of case studies and examples of crystallization processes, ranging from development through manufacturing scale-up. The book not only emphasizes strategies that have been proven successful, it also helps readers avoid common pitfalls that can render standard procedures unsuccessful.

The goal of this text is twofold:

- Build a deeper understanding of the fundamental properties of crystallization as well as the impact of these properties on crystallization process development.
- Improve readers' problem-solving abilities by using actual industrial examples with real process constraints.

Crystallization of Organic Compounds begins with detailed discussions of fundamental thermodynamic properties, nucleation and crystal growth kinetics, process dynamics, and scale-up considerations. Next, it investigates modes of operation, including cooling, evaporation, anti-solvent, and reactive crystallization. The authors conclude with special applications such as ultrasound in crystallization and computational fluid dynamics in crystallization. Most chapters feature multiple examples that guide readers step by step through the crystallization of active pharmaceutical ingredients (APIs).

With its focus on industrial applications, this book is recommended for chemical engineers and chemists who are involved with the development, scale-up, or operation of crystallization processes in the pharmaceutical and fine chemical industries.

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