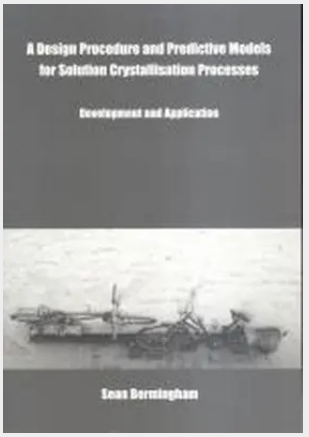
Bermingham

DESIGN PROCEDURE & PREDICTIVE MODELS FOR

This publication concerns the development of a systematic design procedure and predictive models for solution crystallisation processes, with a focus on both product and process performance. The introductory chapter starts with a discussion of the application, advantages and problems of crystallisation in the chemical process industry. Problems encountered in industrial crystallisation are related to both product quality and process performance. Although some of these problems can be solved using process control, most problems are intrinsically related to decisions taken during the design stage. However, systematic procedures and tools for the reliable design of crystallisation processes are practically non-existent. The research objective of this study is hence the development of a prototype design kit, consisting of a systematic procedure and tools, for crystallisation processes. The scope of this research is defined in terms of the nature of the chemical system (relatively well soluble substances), crystallisation method (indirect-cooling, flash-cooling and evaporation), operation mode (batch, semi-batch and continuous), flowsheet configuration (single and multiple stage) and crystalliser type (stirred tank, draft tube, draft tube baffle, and forced circulation).



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