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organic chemicals, and as such they can be considered to underpin much of the modern chemical industry. Despite widespread use and a consequent huge contribution to wealth creation, batch processes have attracted



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limited attention outside the user industries. Batch chemicals processing uses a number of core techniques and technologies, such as scheduling and sequence control, agitation and batch filtration. The combination

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of these technologies with often complex chemistry, the multi-purpose nature of much of this type of plant, the distinctive safety and environmental issues, and a fast moving commercial environment makes the

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development of a successful batch process a considerable challenge for the chemist or engineer. The literature on the topics covered in this book is fragmented and often not easily accessible, so this handbook has been

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written to address this problem and to bring together design and process analysis methods in the core areas of batch process design. By combining the science and pragmatism required in the development

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captured forms the foundation for synthesis, design, and optimization in batch chemical plants. However, there are still serious challenges with handling time in batch plants. Most techniques tend

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to assume either a fixed time dimension or adopt time average models to tame the time dimension, thereby simplifying the resu

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