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the start of the design process  
Link sustainability to the  
chemical engineering  
fundamentals  
Chemistry and chemical  
engineering have changed  
significantly in the last

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decade. They have broadened their scope"into biology, nanotechnology, materials science, computation, and advanced methods of process systems engineering and control"so much that the

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programs in most chemistry and chemical engineering departments now barely resemble the classical notion of chemistry. Beyond the Molecular Frontier brings together research, discovery,

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and invention across the  
entire spectrum of the  
chemical sciencesâ€"from  
fundamental, molecular-level  
chemistry to large-scale  
chemical processing  
technology. This reflects the

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way the field has evolved, the  
synergy at universities  
between research and  
education in chemistry and  
chemical engineering, and the  
way chemists and chemical  
engineers work together in

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industry. The astonishing developments in science and engineering during the 20th century have made it possible to dream of new goals that might previously have been considered unthinkable. This



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book identifies the key opportunities and challenges for the chemical sciences, from basic research to societal needs and from terrorism defense to environmental protection, and it looks at the

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ways in which chemists and chemical engineers can work together to contribute to an improved future.

Batch chemical processes, so often employed in the pharmaceutical and

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agrochemical fields, differ significantly from standard continuous operations in the emphasis upon time as a critical factor in their synthesis and design. With this inclusive guide to batch

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chemical processes, the author introduces the reader to key aspects in mathematical modeling of batch processes and presents techniques to overcome the computational complexity in order to yield

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models that are solvable in near real-time. This book demonstrates how batch processes can be analyzed, synthesized, and designed optimally using proven mathematical formulations.

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The text effectively demonstrates how water and energy aspects can be incorporated within the scheduling framework that seeks to capture the essence of time. It presents real-life

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intensification presents state-  
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systems. Each chapter  
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