For Immediate Release
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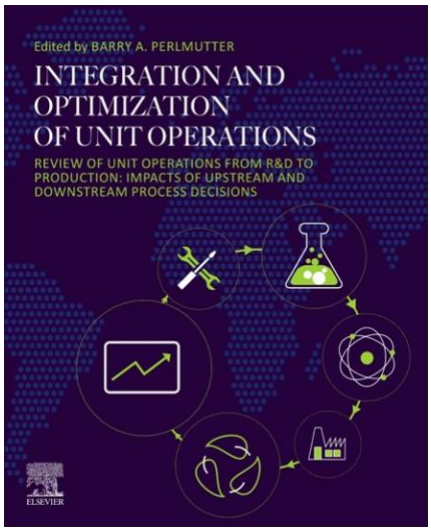

New Book Takes Holistic and Integrated Approach to the Chemical Process Industries

September 2022, Cudahy, CA — Current chemical process books take a how-to approach to design. **Integration and Optimization of Unit Operations** is a unique book offering an integrated and holistic approach to the chemical process industries.

In the new book from Elsevier, a collection of global industry experts systematically discusses complex processes with different unit operations, including solids processing and recycle flows, and the importance of integrated process validation.

Edited by Barry A. Perlmutter, of **P&ID** in Charlotte, NC, the book features chapters focusing on specific steps in a chemical process with design questions, troubleshooting ideas, etc. The chapters follow the process at a chemical operating company, no matter the size of the operation.

The book begins with crystallization and fermentation before covering process equipment, automation, mixing/blending, process modeling, and safety and commissioning. Experts then discuss optimization, project management, techno-economic analysis, and putting it all together. The book concludes with a chapter on decommissioning.

"Integration and Optimization of Unit Operations" addresses the needs of engineers who want to increase their skill levels in various disciplines so that they can develop, commercialize and optimize processes," said editor Barry Perlmutter. "Bringing together a combined expertise of 350 years, the book shares up-to-date and practical information on chemical unit operations from the R & D stage to scale-up and demonstration to commercialization and optimization."

Taking a broader view and encouraging an integrated and holistic approach to chemical engineering, **Integration and Optimization of Unit Operations** is a useful resource for collaborating and developing creative solutions. The book is available for purchase at **Elsevier online.**