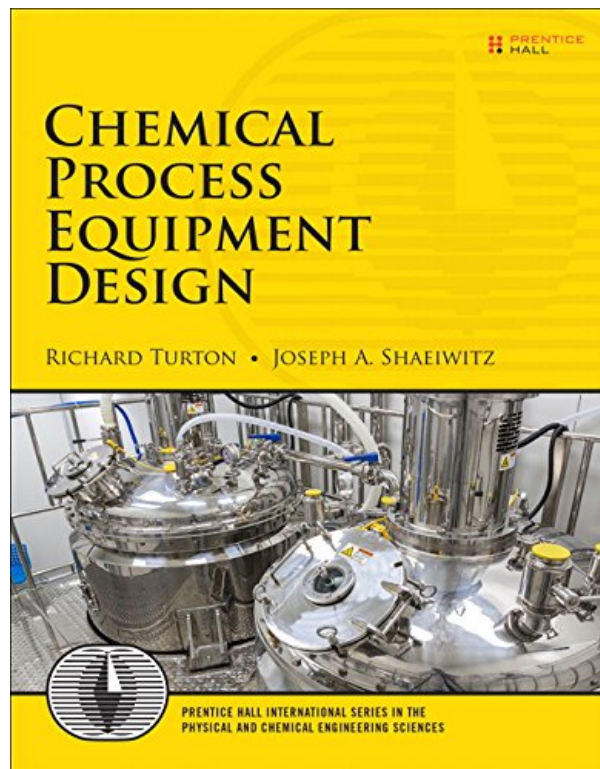


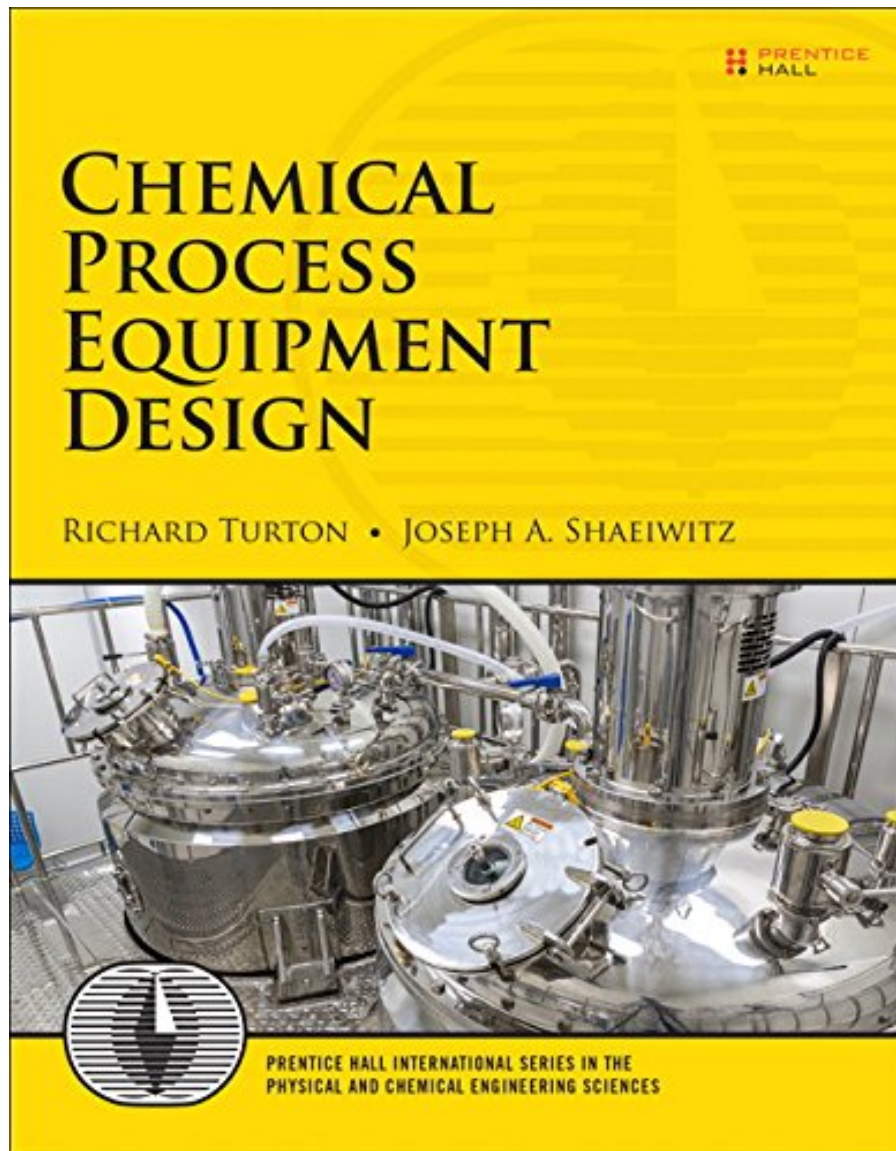
CHEMICAL PROCESS EQUIPMENT DESIGN

BY RICHARD A. TURTON, JOSEPH A.
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About the Author

Richard Turton is the WVU Bolton Professor and has taught in the chemical and biomedical engineering program at West Virginia University for the past 30 years. He received his B.Sc. from the University of Nottingham, UK, and his M.S. and Ph.D. from Oregon State University, all degrees in chemical engineering. He also worked in industry for Pullman-Kellogg, Fluor E&C, and Shell Oil. His research interests include particle technology, design education, and simulation and control of advanced power plants. He is a registered professional engineer in the state of West Virginia.

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The Concise, Easy-to-Use Guide to Designing Chemical Process Equipment and Evaluating Its Performance

Trends such as shale-gas resource development call for a deeper understanding of chemical engineering equipment and design. Chemical Process Equipment Design complements leading texts by providing concise, focused coverage of these topics, filling a major gap in undergraduate chemical engineering education.

Richard Turton and Joseph A. Shaeiwitz present relevant design equations, show how to analyze operation of existing equipment, and offer a practical methodology for designing new equipment and for solving common problems. Theoretical derivations are avoided in favor of working equations, practical computational strategies, and approximately eighty realistic worked examples. The authors identify which equation applies to each situation, and show exactly how to use it to design equipment.

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- Other equipment: preliminary analysis and design for pressure vessels, simple phase-separators (knock-out drums), and steam ejectors

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