

Industrial Chemical Process Design, 2nd Edition (Mechanical Engineering)

By Douglas Erwin

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THE MOST COMPLETE AND CURRENT PROBLEM-SOLVING TOOLKIT FOR CHEMICAL ENGINEERS AND PROCESS DESIGNERS

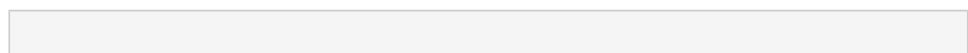
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- Sustainable energy sources
- The Fischer Tropsch gas-to-liquids process
- Ethanol fractionation
- Mitigation solutions for atmospheric pollutants, including nitrogen oxides (NO_x)
- And more

Featuring more than 200 illustrations, this practical, comprehensive resource presents complex operations and formulas in an easy-to-understand way and demonstrates how to incorporate helpful software tools into your daily practice.

Coverage includes:

Fractionation tray design and rating * Oil/gas production surface facility design and rating * Shell/tube, air finfan, and plate-frame exchangers * Fluid flow piping design and rating * Liquid-liquid extraction * Process equipment cost determination



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Editorial Review

About the Author

Douglas L. Erwin, P.E., is a practicing process engineer for engineering design and construction companies, major refinery-operating companies, and major chemical product companies. His project assignments have ranged from daily, routine technical services in refineries through the conception of new, complex, first-of-their-type patented processes. Erwin's chief quest in engineering practice has been to extend knowledge beyond commercial process simulation software, covering the severe technology gaps these packages miss. He has worked in the chemical engineering and process industry in Korea, Saudi Arabia, Indonesia, Peru, Singapore, Canada, Alaska, the United Kingdom, Europe, Africa, Egypt, and the United States. Erwin is considered by clients worldwide to be an expert on code safety practice, the design and operation of oil and gas production and gas processing plants, and refinery liquid-liquid extraction design and operation.

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