



# Process Integration for Resource Conservation (Green Chemistry and Chemical Engineering)

*Dominic C. Y. Foo*

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To achieve environmental sustainability in industrial plants, resource conservation activities such as material recovery have begun incorporating process integration techniques for reusing and recycling water, utility gases, solvents, and solid waste. **Process Integration for Resource Conservation** presents state-of-the-art, cost-effective techniques, including pinch analysis and mathematical optimization, for numerous conservation problems.

Following the holistic philosophy of process integration, the author emphasizes the goal of setting performance targets ahead of detailed design. He explains various industrial examples step by step and offers demo software and other materials online. Ideal for students preparing for real-world work as well as industrial practitioners, the text provides a systematic guide to the latest process integration techniques for performing material recovery in process plants.



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