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# Process Engineering for a Small Planet: How to Reuse, Re-Purpose, and Retrofit Existing Process Equipment

By Norman Lieberman



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## Methods for more planet-friendly process engineering

Our earth is just one big, complex Process Facility with limited air, water, and mineral resources. It responds to a number of process variables—among them, humanity and the environmental effects of our carbon consumption. What can professionals in the Hydrocarbon Process Industry do to retard environmental degradation? Rather than looking to exotic technology for solutions, *Process Engineering for a Small Planet* details ready-at-hand methods that the process engineer can employ to help combat the environmental crisis.

Drawing from the author's professional experience working with petroleum refineries, petrochemical plants, and natural gas wells, this handbook explains how to operate and retrofit process facilities to:

- Reuse existing process equipment
- Save energy
- Reduce greenhouse gas emissions
- Expand plant capacity without installing new equipment
- Reduce corrosion and equipment failures

Covering topics from expanding fractionator and compressor capacity and vacuum tower heater expansion to minimizing process water consumption and increasing centrifugal pump capacity, *Process Engineering for a Small Planet* offers big ideas for saving our small planet.



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### **Editorial Review**

#### About the Author

**NORMAN P. LIEBERMAN** is an independent process design engineer and field troubleshooter. His clients are refineries and petrochemical plants. He is well known in the process industry for his seminar "Troubleshooting Process Operations," which has been presented to over 16,000 engineers and plant operators.

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