



# Solid Waste Analysis and Minimization: A Systems Approach: The Systems Approach (Mechanical Engineering)

By Matthew Franchetti

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## Implement successful solid waste analysis and minimization strategies

Provide sustainable solutions to solid waste issues with help from this hands-on guide. *Solid Waste Analysis and Minimization: A Systems Approach* offers up-to-date technical details on current and potential solid waste minimization practices. This authoritative resource presents a framework for the proper application of solid waste analysis tools, and demonstrates the benefits in terms of environmental impact, process efficiencies, and financial enhancement. Twenty-one real-world case studies covering all industries, from manufacturing to service facilities, are included.

*Solid Waste Analysis and Minimization: A Systems Approach* covers:

- U.S. and international waste generation rates
- Industrial ecology, solid waste exchanges, and recycling
- Environmental, economic, corporate image, personal, and social benefits of solid waste management and minimization
- Solid waste assessment strategies and launch plans
- The Six Sigma systems approach for deployment
- Metrics and performance measurement for solid waste management
- Documentation and development of the deployment plan
- Implementation and execution of the solid waste minimization plan
- Communicating and leveraging success
- Solid waste modeling, research, and data collection
- Characterization by business activities
- Estimation, prediction, and evaluation

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**Solid Waste Analysis and Minimization: A Systems Approach: The Systems Approach (Mechanical Engineering) By Matthew Franchetti Bibliography**

- Sales Rank: #1637855 in Books
- Published on: 2009-06-17
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x 1.25" w x 7.60" l, 2.45 pounds
- Binding: Hardcover
- 564 pages

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About the Author

**Matthew J. Franchetti** is currently an assistant professor of Mechanical, Industrial, and Manufacturing Engineering and director of undergraduate studies of the Mechanical and Industrial Engineering Programs at The University of Toledo.

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