



# Engineering Green Chemical Processes: Renewable and Sustainable Design

By Thomas F. DeRosa



**Engineering Green Chemical Processes: Renewable and Sustainable Design**  
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## Cutting-edge advances in green chemistry

Based on data from the United States Patent and Trademark Office, *Engineering Green Chemical Processes* describes sustainable breakthroughs in chemical research and industrial engineering. The chemical agents and polymers described in this book were synthesized without the use of petrochemicals as reagents. Instead, they were obtained solely through synthetic methods which minimize or eliminate chemical waste, require minimum energy input, and use renewable materials. Emerging synthetic selections currently under investigation in both academic and industrial research facilities worldwide are also discussed in this pioneering work.

## Applications covered include:

- Antibiotics
- Automotive
- Biosolvents
- Candles
- Chemical additives
- Coatings
- Cosmetics
- Detergents
- Diesel fuel
- Eyeglasses
- Fibers
- Food packaging
- Gasoline
- Industrial chemicals
- Lubricants
- Nanoparticles
- Paint
- Photosensitive additives
- Plasticizers
- Polymers
- Remediation processes

- Roadway repairs
- Surfactants
- Thermoplastics
- Toners

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### Editorial Review

About the Author

**Thomas F. DeRosa, Ph.D. (Southbury, CT)**, a former senior scientist and senior intellectual property officer at Texaco, has published 49 U.S. patents relevant to new chemical methods, polymerization techniques, and product development. He is an assistant professor at the Borough of Manhattan Community College of the City University of New York.

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