



# **Elements of Environmental Engineering: Thermodynamics and Kinetics, Third Edition**

*Kalliat T. Valsaraj, Elizabeth M. Melvin*

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Revised, updated, and rewritten where necessary, but keeping the clear writing and organizational style that made previous editions so popular, **Elements of Environmental Engineering: Thermodynamics and Kinetics, Third Edition** contains new problems and new examples that better illustrate theory. The new edition contains examples with practical flavor such as global warming, ozone layer depletion, nanotechnology, green chemistry, and green engineering. With detailed theoretical discussion and principles illuminated by numerical examples, this book fills the gaps in coverage of the principles and applications of kinetics and thermodynamics in environmental engineering and science.

## **New topics covered include:**

- Green Chemistry and Engineering
- Biological Processes
- Life Cycle Analysis
- Global Climate Change

The author discusses the applications of thermodynamics and kinetics and delineates the distribution of pollutants and the interrelationships between them. His demonstration of the theoretical foundations of chemical property estimations gives students an in depth understanding of the limitations of thermodynamics and kinetics as applied to environmental fate and transport modeling and separation processes for waste treatment. His treatment of the material underlines the multidisciplinary nature of environmental engineering.

This book is unusual in environmental engineering since it deals exclusively with the applications of chemical thermodynamics and kinetics in environmental processes. The book's multimedia approach to fate and transport modeling and in pollution control design options provides a science and engineering treatment of environmental problems.

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