



Fundamentals of Environmental Chemistry, Third Edition

By Stanley E. Manahan

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Written by an expert, using the same approach that made the previous two editions so successful, **Fundamentals of Environmental Chemistry, Third Edition** expands the scope of book to include the strongly emerging areas broadly described as sustainability science and technology, including green chemistry and industrial ecology. The new edition includes:

- Increased emphasis on the applied aspects of environmental chemistry
- Hot topics such as global warming and biomass energy
- Integration of green chemistry and sustainability concepts throughout the text
- More and updated questions and answers, including some that require Internet research
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The book provides a basic course in chemical science, including the fundamentals of organic chemistry and biochemistry. The author uses real-life examples from environmental chemistry, green chemistry, and related areas while maintaining brevity and simplicity in his explanation of concepts. Building on this foundation, the book covers environmental chemistry, broadly defined to include sustainability aspects, green chemistry, industrial ecology, and related areas. These chapters are organized around the five environmental spheres, the hydrosphere, atmosphere, geosphere, biosphere, and the anthrosphere. The last two chapters discuss analytical chemistry and its relevance to environmental chemistry.

Manahan's clear, concise, and readable style makes the information accessible, regardless of the readers' level of chemistry knowledge. He demystifies the material for those who need the basics of chemical science for their trade, profession, or study curriculum, as well as for readers who want to have an understanding of the fundamentals of sustainable chemistry in its crucial role in

maintaining a livable planet.

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University of Missouri, Columbia, USA

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