



Fundamentals of Wastewater Treatment and Engineering

Rumana Riffat

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As the world's population has increased, sources of clean water have decreased, shifting the focus toward pollution reduction and control. Disposal of wastes and wastewater without treatment is no longer an option. **Fundamentals of Wastewater Treatment and Engineering** introduces readers to the essential concepts of wastewater treatment, as well as the engineering design of unit processes for the sustainable treatment of municipal wastewater.

Filling the need for a textbook focused on wastewater, it first covers history, current practices, emerging concerns, and pertinent regulations and then examines the basic principles of reaction kinetics, reactor design, and environmental microbiology, along with natural purification processes. The text also details the design of unit processes for primary, secondary, and advanced treatment as well as solids processing and removal. Using detailed calculations, it discusses energy production from wastewater.

Comprehensive and accessible, the book addresses each design concept with the help of an underlying theory, followed by a mathematical model or formulation. Worked-out problems demonstrate how the mathematical formulations are applied in design. Throughout, the text incorporates recent advances in treatment technologies.

Based on a course taught by the author for the past 18 years, the book is designed for undergraduate and graduate students who have some knowledge of environmental chemistry and fluid mechanics. Readers will get a strong grounding in the principles and learn how to design the unit processes used in municipal wastewater treatment operations. Professionals in the wastewater industry will also find this a handy reference.

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