



Fundamentals of Water Treatment Unit Processes: Physical, Chemical, and Biological

David Hendricks

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Carefully designed to balance coverage of theoretical and practical principles, Fundamentals of Water Treatment Unit Processes delineates the principles that support practice, using the unit processes approach as the organizing concept. The author covers principles common to any kind of water treatment, for example, drinking water, municipal wastewater, industrial water treatment, industrial waste water treatment, and hazardous wastes. Since technologies change but principles remain constant, the book identifies strands of theory rather than discusses the latest technologies, giving students a clear understanding of basic principles they can take forward in their studies.

Reviewing the historical development of the field and highlighting key concepts for each unit process, each chapter follows a general format that consists of process description, history, theory, practice, problems, references, and a glossary. This organizational style facilitates finding sections of immediate interest without having to page through an excessive amount of material.

Pedagogical Features

- End-of-chapter glossaries provide a ready reference and add terms pertinent to topic but beyond the scope of the chapter
- Sidebars sprinkled throughout the chapters present the lore and history of a topic, enlarging students' perspective
- Example problems emphasize tradeoffs and scenarios rather than single answers and involve spreadsheets
- Reference material includes several appendices and a quick-reference spreadsheet
- Solutions manual includes spreadsheets for problems
- · Supporting material is available for download

Understanding how the field arrived at its present state of the art places the technology in a more logical context and gives students a strong foundation in basic principles. This book does more than build technical proficiency, it adds insight and understanding to the broader aspects of water treatment unit processes.



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