



Unit Operations and Processes in Environmental Engineering, Second Edition

By Tom D. Reynolds, Paul Richards

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The text is written for both Civil and Environmental Engineering students enrolled in Wastewater Engineering courses, and for Chemical Engineering students enrolled in Unit Processes or Transport Phenomena courses. It is oriented toward engineering design based on fundamentals. The presentation allows the instructor to select chapters or parts of chapters in any sequence desired.

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Unit Operations and Processes in Environmental Engineering, Second Edition By Tom D. Reynolds, Paul Richards Bibliography

- Sales Rank: #354550 in Books
- Brand: Brand: Cengage Learning
- Published on: 1995-12-22
- Original language: English
- Number of items: 1
- Dimensions: 9.57" h x 1.36" w x 7.64" l, 3.10 pounds
- Binding: Hardcover
- 816 pages



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Editorial Review

Review

1. Chemical Concepts 2. Biological Concepts 3. Mass Balances, Flow Models, and Reactors 4. Water Quantities and Water Quality 5. Wastewater Quantities and Wastewater Quality 6. Water and Wastewater Treatment Plants 7. Preliminary Unit Operations and Processes 8. Coagulation and Flocculation 9. Sedimentation 10. Filtration 11. Ammonia Removal 12. Adsorption 13. Ion Exchange 14. Membrane Processes 15. Activated Sludge 16. Oxygen Transfer and Mixing 17. Trickling Filters and Rotary Biological Contactors 18. Stabilization Ponds and Aerated Lagoons 19. Anaerobic Digestion 20. Aerobic Digestion 21. Solids Handling 22. Land Treatment of Municipal Wastewater and Sludges 23. Other Unit Operations and Processes 24. Disinfection Appendices / Glossary / Answers to Selected problems / Index

From the Back Cover

The second edition of this best-selling book provides thorough, updated coverage of unit operations in water/wastewater treatment. Chapter 1 through 5 now provide a strong background in chemical and biological concepts, reactor fundamentals, and other key process. Subsequent chapters present a practical approach to the design of water and wastewater treatment plants, carefully explaining new technologies that affect the design of such facilities. New problems and worked examples have been developed to give readers a greater practical understanding of unit operations.

About the Author

PhD Texas A&M University

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