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## Nota di contenuto

Front cover; Contents; Preface; Acknowledgments; Author; Downloadable Files; Contents-Downloadable Files; Part I. Foundation; Chapter 1. Water Treatment; Chapter 2. Water Contaminants; Chapter 3. Models; Chapter 4. Unit Process Principles; Part II. Particulate Separations; Chapter 5. Screening; Chapter 6. Sedimentation; Chapter 7. Grit Chambers; Chapter 8. Flotation; Part III. Microscopic Particles; Chapter 9. Coagulation; Chapter 10. Mixing; Chapter 11. Flocculation; Chapter 12. Rapid Filtration; Chapter 13. Slow Sand Filtration; Chapter 14. Cake Filtration; Part IV. Molecules and Ions Chapter 15. AdsorptionChapter 16. Ion-Exchange; Chapter 17. Membrane Processes; Chapter 18. Gas Transfer; Chapter 19. Disinfection; Chapter 20. Oxidation; Chapter 21. Precipitation; Part V. Biological Treatment; Chapter 22. Biological Reactions and Kinetics; Chapter 23. Biological Reactors; Pre-Appendix Tables; Appendix A: International System of Units; Appendix B: Physical Constants and Physical Data; Appendix C: Miscellaneous Relations; Appendix D: Fluid Mechanics-Reviews of Selected Topics; Appendix E: Porous Media Hydraulics; Appendix F: Alum Data and Conversions Appendix G: Dimensionless NumbersAppendix H: Dissolved Gases; Index; Back cover

## Sommario/riassunto

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.