

# Fundamentals Of Water Treatment Unit Processes

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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

the unit process approach common in the field of chemical engineering was introduced about 1962 to the field of environmental engineering an understanding of unit processes is the foundation for continued learning and for designing treatment systems the time is ripe for a new textbook that delineates the role of unit process principles in environmental engineering suitable for a two semester course water treatment unit processes physical and chemical provides the grounding in the underlying principles of each unit process that students need in order to link theory to practice bridging the gap between scientific principles and engineering practice the book covers approaches that are common to all unit processes as well as principles that characterize each unit process integrating theory into algorithms for practice professor hendricks emphasizes the fundamentals using simple explanations and avoiding models that are too complex mathematically allowing students to assimilate principles without getting sidelined by excess calculations applications of unit processes principles are illustrated by example problems in each chapter student problems are provided at the end of each chapter the solutions manual can be downloaded from the crc press site excel spreadsheets are integrated into the text as tables designated by a cd prefix certain spreadsheets illustrate the idea of scenarios that emphasize the idea that design solutions depend upon assumptions and the interactions between design variables the spreadsheets can be downloaded from the crc web site the book has been designed so that each unit process topic is self contained with sidebars and examples throughout the text each chapter has subheadings so that students can scan the pages and identify important topics with little effort problems references and a glossary are found at the end of each chapter most chapters contain downloadable excel spreadsheets integrated into the text and appendices with additional information appendices at the end of the book provide useful reference material on various topics that support the text this design allows students at different levels to easily navigate through the book and professors to assign pertinent sections in the order they prefer the book gives your students an understanding of the broader aspects of one of the core areas of the environmental engineering curriculum and knowledge important for the design of treatment systems

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this text offers information on the theory of major drinking water treatment processes and contains real life practical examples it aims to create guidelines for the design of unit processes that operate within an overall framework for water treatment plants

aimed primarily at natural scientists this text provides a unified course in wastewater treatment it deals with the environmental and biological aspects of wastewater treatment and disposal as well as the fundamental physical and chemical principles of treatment

this book gives plant operators and students of wastewater a simple and math based introduction to all major unit processes in the modern wastewater treatment plant the work is designed for operators and managers to run plants and to advance their careers by passing state licensure exams

this manual is designed to train operators in the safe and effective operation of industrial waste treatment plants it covers the importance and responsibilities of an industrial wastewater treatment plant operator information is provided on the importance of being an operator safety waste minimization physical chemical treatment process treatment of metal wastestreams and instrumentation

an indexed directory of current research project abstracts in toxicology and related fields

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