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Descrizione fisica	1 online resource (xvi, 878 pages) : illustrations
Altri autori (Persone)	LawlerDesmond F
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Soggetti	Water - Purification Sewage - Purification Electronic books.
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. I. Reactors and reactions in water quality engineering -- pt. II. Removal of dissolved constituents from water -- pt. III. Removal of particles from water -- pt. IV. Membrane-based water and wastewater treatment.
Sommario/riassunto	Explains the fundamental theory and mathematics of water and wastewater treatment processes By carefully explaining both the underlying theory and the underlying mathematics, this text enables readers to fully grasp the fundamentals of physical and chemical treatment processes for water and wastewater. Throughout the book, the authors use detailed examples to illustrate real-world challenges and their solutions, including step-by-step mathematical calculations. Each chapter ends with a set of problems that enable readers to put their knowledge into practice by developing and analyzing complex processes for the removal of soluble and particulate materials in order to ensure the safety of our water supplies. Designed to give readers a deep understanding of how water treatment processes actually work, Water Quality Engineering explores: Application of mass balances in continuous flow systems, enabling readers to understand and predict changes in water quality Processes for removing soluble contaminants

from water, including treatment of municipal and industrial wastes
Processes for removing particulate materials from water Membrane
processes to remove both soluble and particulate materials Following
the discussion of mass balances in continuous flow systems in the first
part of the book, the authors explain and analyze water treatment
processes in subsequent chapters by setting forth the relevant mass
balance for the process, reactor geometry, and flow pattern under
consideration. With its many examples and problem sets, Water Quality
Engineering is recommended as a textbook for graduate courses in
physical and chemical treatment processes for water and wastewater.
By drawing together the most recent research findings and industry
practices, this text is also recommended for professional environmental
engineers in search of a contemporary perspective on water and
wastewater treatment processes.
