



The Science of Wastewater

Frank R. Spellman

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Problem-based and practical introduction to the sciences required to treat wastewater. Covers standard formulas governing unit processes and summarizes material essential for certification and licensure. Explains key calculations governing unit operations in treatment plants.

The scientific properties of different types of wastewater and the unit processes used to transform it into effluent of sufficient quality to be returned to the environment are explained in this comprehensive text. The book presents detailed descriptions of, and mathematical formulas for, wastewater treatment processes from dirty influent to drinking-water-quality discharge. Operations include: filtering and activated sludge, detention basins, ponds and lagoons, and the stabilization and composting of biosolids. Chapters explain the basics of the multiple sciences needed to master wastewater treatment: mathematics, hydraulics, chemistry, and electricity, as well as plant-specific methods used in sedimentation, biological contractors, pumping, chemical dosing, lab analysis and more. Unit processes are illustrated with examples from facilities, as well as by explanations of formulas and step-by-step calculations.

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