Water Quality Engineering

Physical/Chemical Treatment Processes

Mark M. Benjamin • Desmond F. Lawler

Water Quality Engineering Physical Chemical

David A. Chin

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authoritative coverage They contain some equations that are not substantiated offering empirical data based on assumptions that are therefore difficult to comprehend This text brings together the information previously scattered in several books and adds the knowledge from the author's lectures on wastewater engineering Physical Chemical Treatment of Water and Wastewater is not only descriptive but is also analytical in nature The work covers the physical unit operations and unit processes utilized in the treatment of water and wastewater Its organization is designed to match the major processes and its approach is mathematical The authors stress the description and derivation of processes and process parameters in mathematical terms which can then be generalized into diverse empirical situations Each chapter includes design equations definitions of symbols a glossary of terms and worked examples One author is an environmental engineer and a professor for over 12 years and the other has been in the practice of environmental engineering for more than 20 years They offer a sound analytical mathematical foundation and description of processes Physical Chemical Treatment of Water and Wastewater fills a niche as the only dedicated textbook in the area of physical and chemical methods providing an analytical approach applicable to a range of empirical situations WATER QUALITY ENGINEERING Sudirman, Loso Judijanto, Eko Wahyudi, Yongker Baali, Choirunisa Windiastuti, We express our gratitude to the presence of Almighty God for the completion of the book Water Quality Engineering This is an academic and practical contribution to the field of water resources management with a focus on quality sustainability and the challenges faced in the modern era Water is a vital resource for human life but its availability and quality are increasingly threatened by population growth industrialization urbanization and climate change Therefore a thorough understanding of the characteristics of water sources the hydrological cycle treatment technologies waste management and water quality risk assessment is crucial This book seeks to present a comprehensive discussion that combines theory research findings case studies and the latest innovations in water quality engineering

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