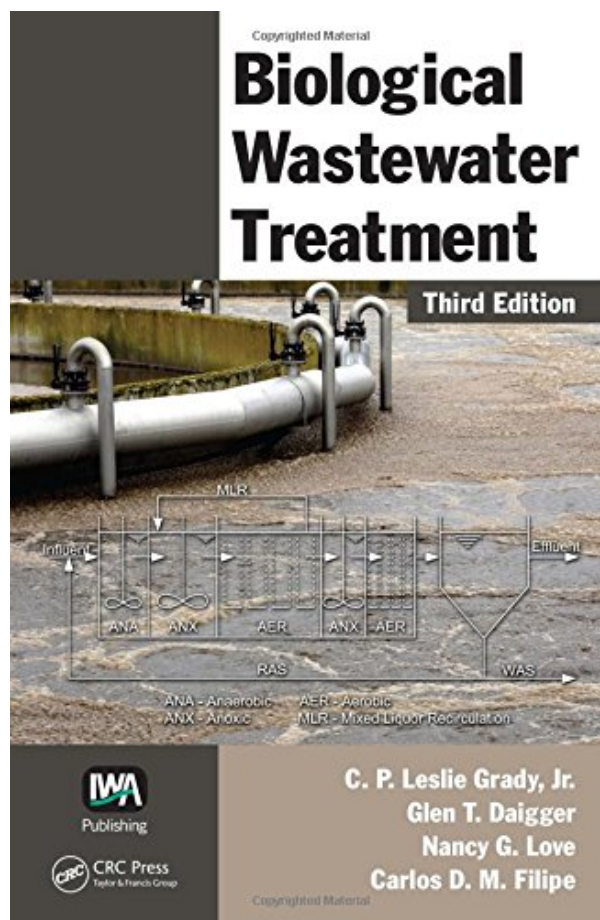
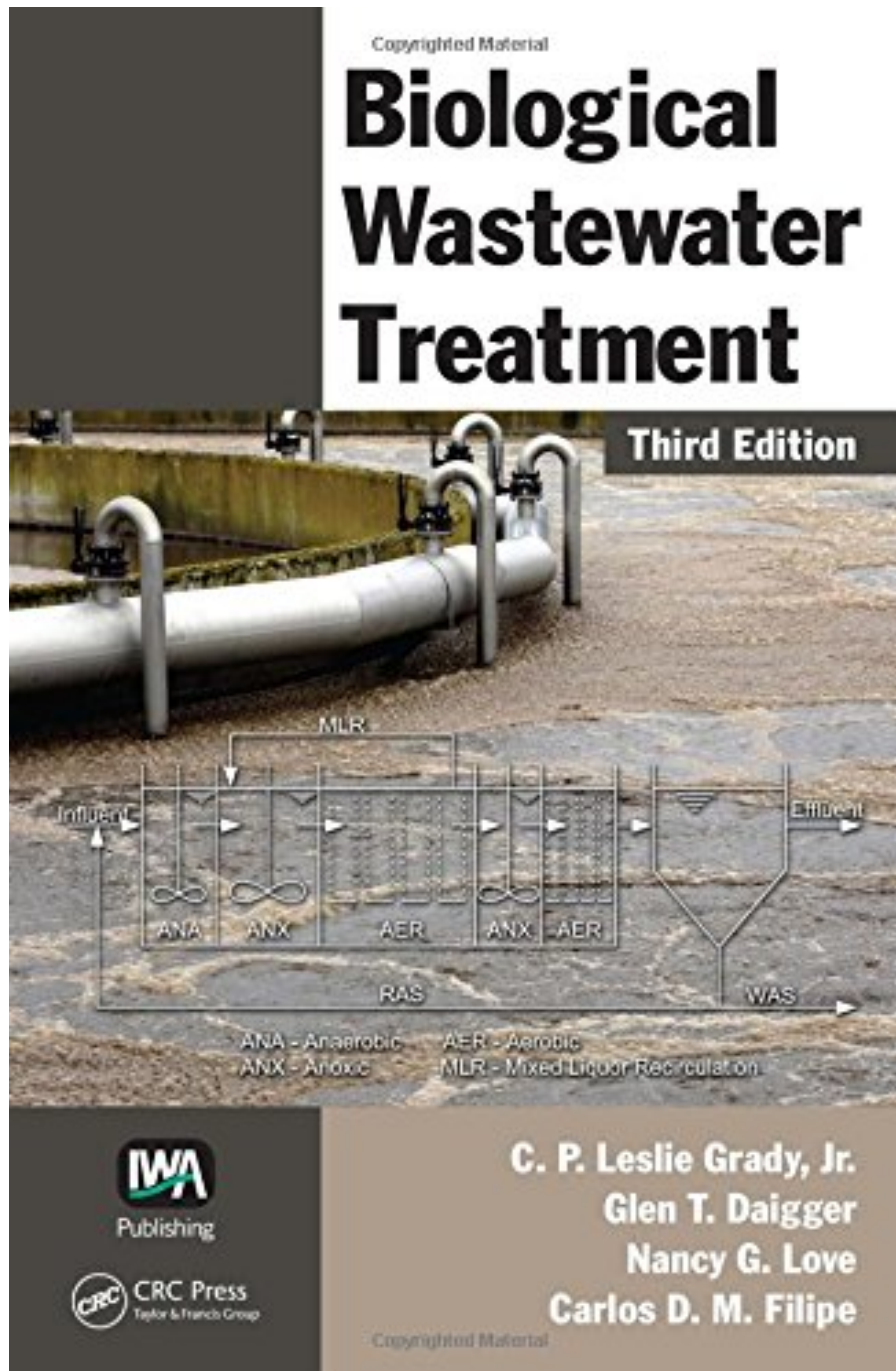


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## **Review**

### **Unanimous Praise for the Previous Edition**

...provide[s] in-depth coverage to subject matter often omitted or given minimal treatment in wastewater treatment texts of broader scope...[The authors] have provided a valuable addition to the reference literature on biological treatment systems. Its value lies in the presentation of some innovative concepts in biological process design, and in the thoroughness of coverage given to the subject matter....a worthwhile addition to an environmental engineer's reference library.

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- A chapter on applying biochemical unit operations to design systems for greater sustainability

The book describes named biochemical operations in terms of treatment objectives, biochemical environment, and reactor configuration; introduces the format and notation used throughout the text; and presents the basic stoichiometry and kinetics of microbial reactions that are key to quantitative descriptions of biochemical operations. It then examines the stoichiometry and kinetics used to investigate the theoretical performance of biological reactors containing microorganisms suspended in the wastewater. The authors apply this theory to the operations introduced, taking care to highlight the practical constraints that ensure system functionality in the real world.

The authors focus on further biochemical operations in which microorganisms grow attached to solid surfaces, adding complexity to the analysis, even though the operations are often simpler in application. They conclude with a look to the future, introducing the fate and effects of xenobiotic and trace contaminants in wastewater treatment systems and examining how the application of biochemical operations can lead to a more sustainable world.

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