

# Anaerobic Reactors for Sewage Treatment: Design, Construction and Operation

**Editor(s):** Carlos Augusto de Lemos Chernicharo, Thiago Bressani-Ribeiro

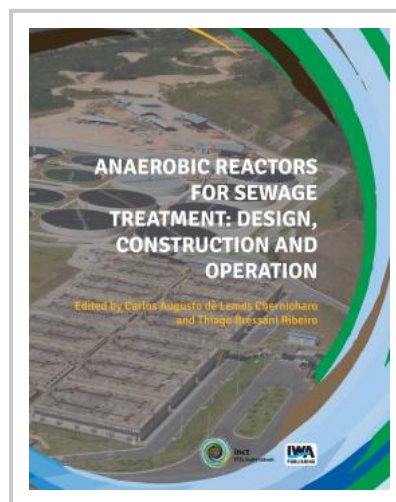
Anaerobic sewage treatment using UASB reactors has significantly expanded in the last few decades and is now a consolidated technology in some warm climate regions. Several advantages of the anaerobic process make it a more sustainable option for sewage treatment. However, there are still important constraints related to design, construction, and operation of UASB reactors. Conversely, there is enough knowledge, experience, and proven technology that can be used to effectively tackle all the related drawbacks.

This book delivers the most relevant techno-scientific developments from academia and water authorities, comprehensively addressing the main aspects of interest in design, construction, and operation of UASB reactors for sewage treatment. Special attention is given to the proper and integrated management of sludge, scum, gaseous emissions, energy recovery, and effluent quality. The main purpose is to provide information and share experiences not yet compiled in the specialized literature on anaerobic sewage treatment. Therefore, a sequence of 12 well-interconnected chapters consolidates the practical knowledge and experiences that important research groups and recognized professionals worldwide have acquired over the past 20 years in demo- and full-scale anaerobic-based sewage treatment plants.

*Anaerobic Reactors for Sewage Treatment: Design, Construction and Operation* can significantly contribute towards a responsible expansion of the anaerobic technology in the world. The book is a valuable tool for engineers, constructors, operators, wastewater utility managers, as well as for students interested in anaerobic processes for sewage treatment.

**A simple and ready-to-use spreadsheet for the design of UASB reactors for sewage treatment is available for download [here](#)[1].**

**Read the Spanish translation, [Reactores Anaeróbicos para Tratamiento de Aguas Residuales: Diseño, Construcción y Operación](#)[2].**



**Publication Date:** 15/07/2019

**ISBN13:** 9781780409221

**eISBN:** 9781780409238

**Pages:** 420

**Print:**

**Standard price:** £95 / €119 / \$143

**Member price:** £71 / €89 / \$107

**eBook:**

**Standard price:** £95 / €119 / \$143

**Member price:** £71 / €89 / \$107