



# **Aeration: Principles and Practice, Volume 11 (Water Quality Management Library)**

*James Mueller, William C. Boyle, Ing. H. Johannes Popel*

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The immense environmental challenges facing the world now and in years to come can only be met through marshalling the talents of the best environmental engineers and scientists, and through the use of innovative, cost-effective solutions. Written by three leading aeration experts, *Aeration: Principles and Practice*, covers the principles and practice of aeration, a unit process critical to the performance of activated sludge treatment and to the budget of wastewater plants.

This reference presents the state of the art in aeration, using examples from a variety of facilities in the USA and Europe. The authors investigate conventional and deep-tank aeration systems for BOD removal and nitrification, as well as high-purity oxygen systems. Operating and capital costs, as well as energy use data are presented together with design information allowing the adaptation of new aeration technologies to plants of diverse size.

Both practitioners and advanced students of wastewater management will appreciate the detailed presentation of oxygen transfer principles, especially as they are illustrated in numerous applications. With the information presented in this book engineers and managers will be able to understand and monitor the efficiency of existing aeration systems and to develop strategies for process improvement.

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