

Bibliography

- [BAW⁺84] R.B. Banks, M. ASCE, G. B. Wickramanayake, B. N. Lohani, and A. M. ASCE. Effect of rain on surface reaeration. *Journal of Environmental Engineering*, 110:1 – 14, 1984.
- [BV98] B. E. Boumansour and J. L. Vassel. A new tracer gas method to measure oxygen transfer and enhancement factor on rbc. *Water Research*, 32(4):1049–1058, 1998.
- [CM08] A. Chavan and S. Mukherji. Dimensional analysis for modeling oxygen transfer in rotating biological contactor. *Bioresource Technology*, 99(9):3721–3728, 2008.
- [COG06] A. Caselles-Osorio and J. Garcia. Continuous and intermittent operation of shallow horizontal subsurface wetlands. In *10th International Conference on Wetland Systems for Water Pollution Control*, volume 1, pages 577 – 585, 2006.
- [Coo05] P. Cooper. The performance of vertical flow constructed wetland systems with special reference to the significance of oxygen transfer and hydraulic loading rates. *Water Science & Technology*, 51(9):81 – 90, 2005.
- [Den97] P. Denny. Implementation of constructed wetlands in developing countries. *Water Science and Technology*, 35(5):27 – 34, 1997.
- [FA76] E. G. Foree and M. ASCE. Reaeration and velocity prediction for small streams. *Journal of the Environmental Engineering Division*, 102:937 – 952, 1976.
- [GAE⁺96] Rakesh K. Gelda, Martin T. Auer, Steven W. Effer, Steven C. Chapra, and Michelle L. Storey. Determination of reaeration coefficients: Whole-lake approach. *Journal of Environmental Engineering*, 122(4):269–275, 1996.
- [GJL04] R. Gimbel, M. Jekel, and R. Ließfeld. *Wasseraufbereitung Grundlagen und Verfahren*. Oldenbourg Industrieverlag GmbH, 2004.
- [GRCO⁺07] J. Garcia, D. Rousseau, A. Caselles-Osorio, A. Story, N. De Pauw, and P. Vanrolleghem. *Water Air Soil Pollut*, chapter Impact of Prior Physico- Chemical Treatment on the Clogging Process of Subsurface Flow Costructed Wetlands: Model- Based Evaluation, pages 101 – 109. Springer, 2007.

- [HDR⁺00] G. Hebrard, P. Destrac, M. Roustan, A. Huyard, and J. M. Audic. Determination of the water quality correction factor [alpha] using a tracer gas method. *Water Research*, 34(2):684–689, 2000.
- [HWG04] J.L. Huisman, N. Weber, and W. Gujer. Reaeration in sewers. *Water Research*, 38:1089 – 1100, 2004.
- [JP] M. Jekel and A. Putschew. *Praktikumsskript Messtechnik*. Technische Universität Berlin, Institut für Technischen Umweltschutz, Fachgebiet Wasserreinigung.
- [KCG04] V. Kubsad, S. Chaudhari, and S.K. Gupta. Model for oxygen transfer in rotating biological contactors. *Water Research*, 38:4297 – 4304, 2004.
- [KK96] R.H Kadlec and R.L. Knight. *Treatment wetlands*. Boca Raton, F.L: Lewis, 1996.
- [ME03] Metcalf and Eddy. *Wastewater Engineering*. Mc Graw - Hill Companies, Inc, 2003.
- [Mot06] G.P. Mottola. *Constructed wetlands for wastewater treatment: design and implementation of a pilot plant at the " Universitat Politecnica de Catalunya" of Barcelona*. PhD thesis, Politecnico di Torino, 2006.
- [MVHJ06] H. J. Madsen, J. Vollertsen, and T. Hvitved Jacobsen. Influence of temperature, turbulence and impurities on the air- water oxygen transfer rate in wetland systems. In *10th International Conference on Wetland Systems for Water Pollution Control*, 2006.
- [PVS⁺07] J. Puigaguta, J. Villasenor, J. J. Salas, E. Becares, and J. Garcia. Subsurface-flow constructed wetlands in spain for the sanitation of small communities: A comparative study. *Ecological Engineering*, 30:312–319, 2007.
- [Que01] Thermo Quest. *Trace GC Site Preparation and Installation Manual*. Thermo Quest Italia, 2001.
- [RAHA84] K. A. Rainwater, M. A. ASCE, E. R. Holley, and M. ASCE. Laboratory studies on hydrocarbon tracer gases. *Journal of Environmental Engineering*, 110:27–41, 1984.
- [RAS⁺78] R. E. Rathbun, M. ASCE, D. W. Stephens, D.J. Shultz, and D. Y. Tai. Laboratory studies of gas tracers for reaeration. *Journal of the Environmental Engineering division*, pages 215–229, 1978.
- [RLS⁺08] D.P.L. Rousseau, E. Lesage, A. Story, P.A. Vanrolleghem, and N. De Pauw. Constructed wetlands for water reclamation. *Desalination*, 218(1-3):181–189, 2008.

- [San99] R. Sander. Compilation of henrys law constants for inorganic and organic species of potential importance in environmental chemistry. Technical report, Air Chemistry Department Max-Planck Institute of Chemistry, 1999.
- [San07] Santa. Quantification of oxygen transfer pathways in subsurface-flow constructed wetlands. Master's thesis, UNESCO-IHE INSTITUTE FOR WATER EDUCATION, 2007.
- [S.L08] CromLab S.L. Columnas varias de relleno para c1-c5. Technical report, 2008.
- [Sup] YSI Technical Support. *YSI 58 Dissolved Oxygen Meter, Operations Manual*. YSI Incorporated.
- [TG90] J.R. Thene and J.S. Gulliver. Gas-transfer measurements using headspace analysis of propane. *Journal of Environmental Engineering*, 116:1107 – 1124, 1990.
- [TGRG08] Radboud University Nijmegen Trace Gas Research Group. Methane oxidation. Technical report, Radboud University Nijmegen, 2008.
- [TPR⁺06] Y. Tomoko, G. Ping, I. Ryuhe, E. Yoshitaka, I. Yuhei, and M. Masatoshi. Comparative analysis of constructed wetland systems with different plants species focused on performance of wastewater treatment and characteristics of greenhouse effect gases emission. In *10th International Conference on Wetland Systems for Water Pollution Control*, volume 2, pages 889 – 900, 2006.
- [VS91] J. L. Vassel and P. Schrobiltgen. Oxygen transfer in trickling filters. *Water Research*, 25:53 – 60, 1991.
- [Vym05] J. Vymazal. Horizontal sub-surface flow and hybrid constructed wetlands systems for wastewater treatment. *Ecological Engineering*, 2005.
- [WK06] S. D. Wallace and R. L. Knight. *Small - Scale Constructed Wetland Treatment Systems*. IWA Co - published, 2006.
- [WPM97] P. Worrall, K. J. Peberdy, and M.C. Millett. Constructed wetlands and nature conservation. *Water Science and Technology*, 35(5):205–213, 1997.

