

BOOK REVIEW

Operation of Municipal Wastewater Treatment Plants. Manual of Practice, vol. I-III, published by Environment Federation, Alexandria, USA, 1991, ISBN: 0-943244-69-2, paperback, pp. 1420, price: 110 USD.

This is a revised version of the book first published in 1976, which aims to be the principal reference source for the operators of municipal wastewater treatment plants and to help maintain the plant ability to operate in the long run. Based on the practices, experiments, and innovations of many who have operated thousands of plants built or upgraded during the past 15 years, this manual reflects the state-of-the-art in plant management and operation. Special attention is given to principles of treatment plant management, troubleshooting, and preventive maintenance, recognizing that the plant success in the long run depends largely on sound management.

This manual comprises an introductory chapter and 29 others grouped into three volumes: Volume I. *Management and Support Systems*, Volume II. *Liquid Processes*, and Volume III. *Solids Processes*. A glossary and Appendix of Example Calculations for Operators are included in Volume III. Each chapter provides carefully selected references for those seeking more detailed information on topics found in the chapter. Volume I emphasizes safety and pretreatment as well as the fundamentals of management. It also contains chapter on odour control and the treatment plant support systems including process instrumentation, electrical distribution, pumping, utilities, and chemical handling. Volume II covers natural biological processes (ponds and land treatment), nutrient control processes, advanced physical/chemical treatment and conventional treatment processes. This volume also includes a chapter on enhancing the performance of conventional treatment processes. Volume III begins with an overview chapter on the in-plant management of solids and includes chapter on sampling, thickening, stabilization, and dewatering of sludge.

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