

BOOK REVIEW

ZÁKLADNÍ PROCESY A VÝPOČTY V TECHNOLOGII VODY (WATER AND WASTEWATER TREATMENT PROCESSES, THEORY AND CALCULATION PROCEDURES)

by F. Tuček, J. Chudoba, Z. Koníček, SNTL Nakladatelství technické literatury, Praha 1977, pp. 496, fig. 212, tab. 92

In the world literature — the most popular languages included — the books dealing with water and wastewater treatment are not numerous, this discipline being neither stemmed from many years tradition, nor from basic sciences. That is why each new publication on the water or wastewater treatment raises a vivid interest. It is the case with the book by three Czechoslovakian authors, which has recently appeared in Czechoslovakia.

The authors gave themselves the trouble of presenting unit processes of water and wastewater treatment in the way more exact and adequate than it has ever been practiced. In the book discussed these processes have good mathematical and theoretical backgrounds. This is of a great importance since any lecture can be stated precisely unless suitably matched mathematical tools are employed. In one instant the authors gave even the calculation programme in FORTRAN IV.

The book contains concise descriptions of the main physical and biological processes, though the chapters are not arranged according to commonly accepted schedule. The separate chapters discuss the following problems:

1. Biochemical oxygen demand,
2. Self-purification processes
3. Criteria of surface water quality,
4. Equilization of flow-wastes and wastewater composition,
5. Biological aerobic wastewater treatment,
6. Biological anaerobic wastewater treatment,
7. Sedimentation,
8. Chemical precipitation (coagulation),
9. Filtration.

Theoretical background of each chapter is well justified and does not raise any objection. The author did not succeed in finding errors in calculations.

The book is the 8,000th item published within the widely understood series entitled „Chemical Book”. The book first of all is addressed to the staff of research institutes, design offices and water pollution control inspection. It can be also helpful for students of sanitary and environmental engineering, and in all probabilities it will perform its task with good effects.

The referee appreciates very much the book, one point of his complain is the lack of Polish literature in this domain which is quite numerous. The title mentioning solely water treatment may be confusing for the potential but less experient readers of this book, as its subject comprises also the wastewater treatment.

It seems advantageous to present in an additional chapter for the problem of water and wastewater treatment as a system in the sense of the general systems theory, being an introduction to the advanced

operation research. The same is true for the modern processes of water renovation which would deserve a separate chapter, as they become more and more indispensable, closing the local and/or internal water systems.

There is, finally, a linguistic barrier which narrows the circle of potential readers to the area of Czechoslovakia and to not numerous group of people more or less acquainted with the language and interested with the subject problems. Summing up, the Authors deserve most sincere congratulations for the success in writing this book.

Edward S. Kempa

