



Natural Systems for Waste Management and Treatment

By Sherwood Reed, Ronald Crites, E. Middlebrooks

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Biologically-based systems for handling waste are gathering international attention as a more reliable, less costly alternative to energy intensive mechanical systems, and are being used by increasing numbers of communities and municipalities. The natural process of waste treatment deals with processing waste and wastewater naturally in streams and the soil. The process in wastewater treatment plants is virtually the same process used in treating the material with bacteria only at a more rapid rate. This results in higher energy consumption and more accumulated sludge than the natural process. This edition features recent advances in the use of wetlands and aquatic systems, the treatment of sludges, and other areas in the field of waste management. It also includes current EPA regulations and coverage of small-scale on-site systems.

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Editorial Review

About the Author

Sherwood C. Reed, P.E., has over 30 years' experience in the research and design of natural systems for waste treatment and other environmental engineering facilities. Principal of Engineering Environmental Consultants, Mr. Reed is the author of several books and more than 100 papers on wastewater and sludge management.

Ronald W. Crites, P.E., is Managing Engineer for Brown and Caldwell in Sacramento, California, and an internationally recognized expert on land application of wastes, water reuse, constructed wetlands, and other natural treatment processes. He has 30 years of experience in these fields and is the author of several books and over 110 technical journal articles.

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