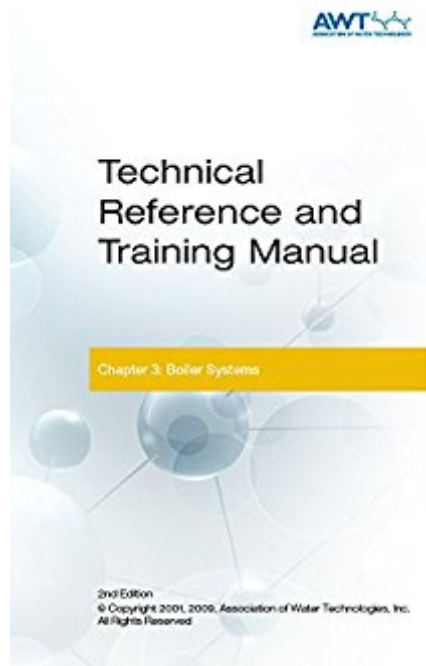


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AWT Technical Reference & Training Manual, Chapter 3: Boiler Systems



Synopsis

Developed by the AWT Technical Committee, in conjunction with several consultant members, to assist AWT members in training their employees in the latest water treatment methods. This comprehensive aid provides proper procedures in basic cooling and boiler treatment, as well as a brief introduction to waste water treatment and air washers. Included are specific chapters dealing with boiler water treatment chemical guidelines, basic boiler calculations, phosphate programs, steam and condensate line treatment, field determination of deposits, biocides, open and closed loop systems and much more. Steam was one of the foundations of the Industrial Revolution. After water and wind power, it was the next important step in the process of industrialization. Unlike water or wind power, steam could be generated at will and in the desired location. But the main drawback was that its generation and handling required highly specialized technology. Among these were the ability to provide energy in a concentrated form, develop equipment capable of withstanding the temperatures and pressures involved, and finally of providing water of sufficient quality to prevent failure of the equipment due to corrosion and fouling. This chapter deals primarily with the last issue, water quality and treatment. Regardless of the boiler design and the uses of the steam, the basic principles of steam generation remain the same. Sections 3.0 to 3.3 cover boiler design and steam generation. These sections are not intended to be exhaustive, but merely illustrative. The purpose of including those sections is so that the reader will be familiar with the equipment and their principles of operation. In that way, there will be a better understanding of how water treatment relates to these systems, and how to recognize problems and deal with them effectively.

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