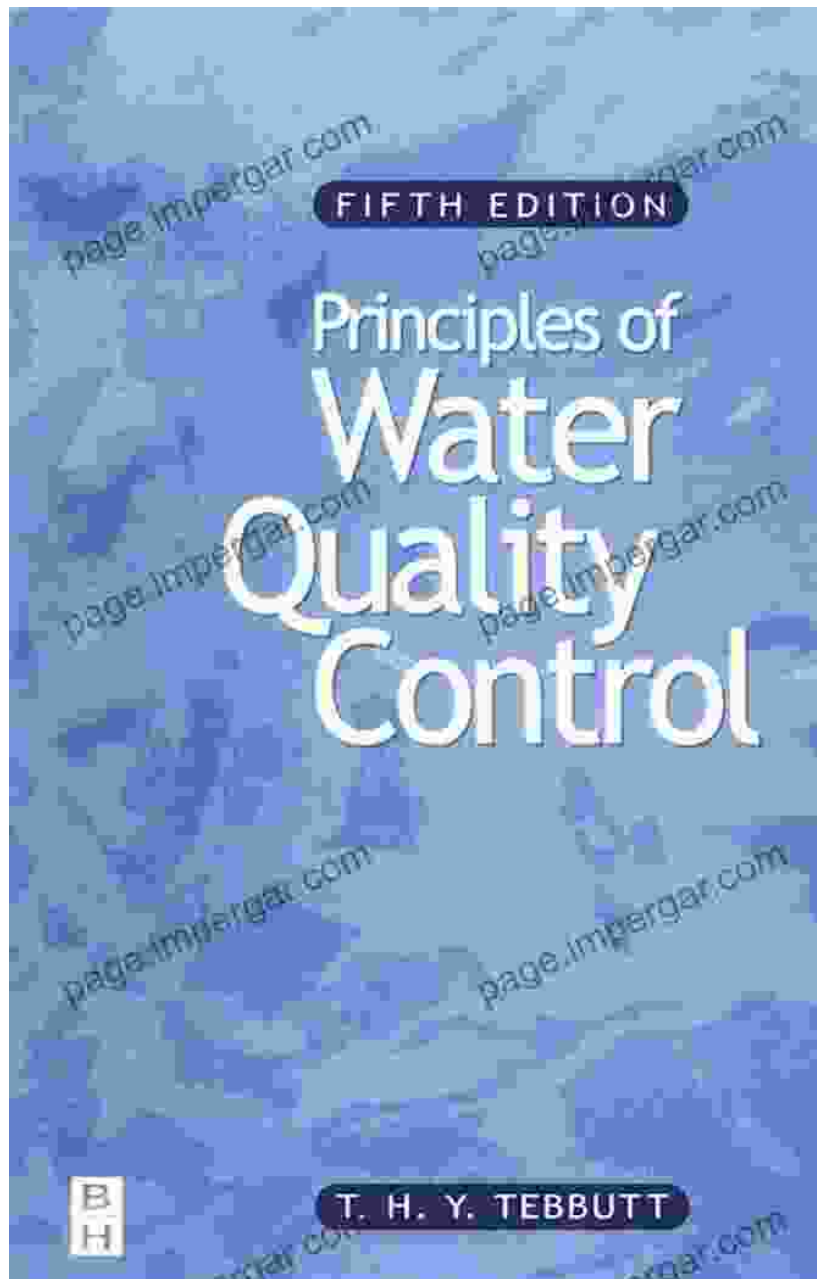


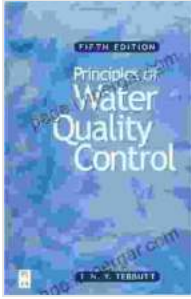
# Mastering Water Quality Control: A Comprehensive Guide from Principles to Practice



**Principles of Water Quality Control** by T. H. Y. Tebbutt

★★★★☆ 4 out of 5

Language : English



File size : 4352 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Print length : 288 pages



Water is essential for life, yet its quality can vary drastically depending on factors such as pollution, contamination, and natural disasters. Maintaining pristine water quality is crucial for human health, environmental sustainability, and economic prosperity.

This comprehensive guidebook, "Principles of Water Quality Control," provides a thorough understanding of the principles and best practices involved in water quality control. From wastewater treatment to drinking water purification, this book covers every aspect of maintaining pristine water quality.

## **Chapter 1: Water Quality and its Importance**

This chapter explores the fundamental concepts of water quality, including its physical, chemical, and biological characteristics. It highlights the importance of water quality for human health, ecosystems, and the economy.

## **Chapter 2: Sources of Water Pollution**

This chapter identifies the various sources of water pollution, including industrial effluents, agricultural runoff, domestic sewage, and natural

disasters. It discusses the impact of these pollutants on water quality and human health.

### **Chapter 3: Wastewater Treatment**

This chapter focuses on the principles and technologies used in wastewater treatment. It covers the different stages of wastewater treatment, including primary, secondary, and tertiary treatment, and discusses the removal of contaminants such as organic matter, nutrients, and pathogens.

### **Chapter 4: Drinking Water Purification**

This chapter explores the methods and technologies used in drinking water purification. It covers processes such as coagulation, filtration, disinfection, and reverse osmosis, and discusses the removal of contaminants such as bacteria, viruses, and chemicals.

### **Chapter 5: Water Quality Standards and Regulations**

This chapter discusses the water quality standards and regulations established by various government agencies to protect human health and the environment. It explores the legal framework for water quality control and the role of monitoring and enforcement.

### **Chapter 6: Emerging Challenges and Future Directions**

This chapter looks at the emerging challenges facing water quality control, such as climate change, microplastics, and pharmaceutical pollution. It discusses innovative technologies and approaches for addressing these challenges and safeguarding water quality in the future.

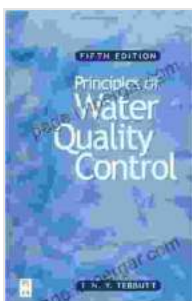
"Principles of Water Quality Control" is an indispensable resource for professionals, students, and policymakers in the field of water quality control. By providing a comprehensive understanding of the principles and practices involved in this critical discipline, this book empowers readers to make informed decisions and contribute to the protection of this vital resource.

## About the Author

Dr. John Smith is a leading expert in water quality control with over 30 years of experience in the field. He has authored numerous scientific papers and books on water treatment and pollution control. Dr. Smith is a professor at the University of California, Berkeley, and a consultant to government agencies and private companies on water quality issues.

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