



Aeration Control System Design: A Practical Guide to Energy and Process Optimization

Thomas E. Jenkins

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Learn how to design and implement successful aeration control systems

Combining principles and practices from mechanical, electrical, and environmental engineering, this book enables you to analyze, design, implement, and test automatic wastewater aeration control systems and processes. It brings together all the process requirements, mechanical equipment operations, instrumentation and controls, carefully explaining how all of these elements are integrated into successful aeration control systems. Moreover, *Aeration Control System Design* features a host of practical, state-of-the-technology tools for determining energy and process improvements, payback calculations, system commissioning, and more.

Author Thomas E. Jenkins has three decades of hands-on experience in every phase of aeration control systems design and implementation. He presents not only the most current theory and technology, but also practical tips and techniques that can only be gained by many years of experience. Inside the book, readers will find:

- Full integration of process, mechanical, and electrical engineering considerations
- Alternate control strategies and algorithms that provide better performance than conventional proportional-integral-derivative control
- Practical considerations and analytical techniques for system evaluation and design
- New feedforward control technologies and advanced process monitoring systems

Throughout the book, example problems based on field experience illustrate how the principles and techniques discussed in the book are used to create successful aeration control systems. Moreover, there are plenty of equations, charts, figures, and diagrams to support readers at every stage of the design and implementation process.

In summary, *Aeration Control System Design* makes it possible for engineering students and professionals to design systems that meet all mechanical, electrical, and process requirements in order to ensure effective and efficient operations.

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