



# Lumpy Water Math: Math for Wastewater Operators

By Jerry Grant

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## Lumpy Water Math: Math for Wastewater Operators By Jerry Grant

Lumpy Water Math was written to help wastewater treatment plant operators and collection system operators with the basic problem solving ability needed to evaluate and control these systems. This understanding will help the operator use math in day-to day operation as well as help prepare for certification exams. The math will be helpful to water supply and distribution system operators as the math used is basically the same. The instruction begins with basic instruction in solving for areas and volumes, detention time, flow calculations, hydraulic and organic loading and progresses to specialty areas such as activated sludge and laboratory calculations. The book includes tips for making problem solving and use of calculators easier. Typical state design standards are listed so that problem answers can be compared to accepted values. The book includes many practice problems with answers given in the appendix to help operators become proficient in basic problem solving.

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### Editorial Review

#### About the Author

Jerry Grant is an environmental engineer who has been working in the field of wastewater treatment and collection and water supply treatment and distribution since 1968 and has taught many water and wastewater subjects, including math, at hundreds of workshops, district schools, statewide annual schools and long-term courses.

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