



Six-Minute Solutions for Civil PE Water Resources and Environmental Depth Exam Problems

By R. Wane Schneiter PhD PE

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Six-Minute Solutions for Civil PE Water Resources and Environmental Depth Exam Problems contains 100 multiple-choice problems that are grouped into nine chapters. Each chapter corresponds to a topic on the Civil PE water resources and environmental depth exam. Problems are representative of the exam's format, scope of topics, and level of difficulty. Like the PE exam, an average of six minutes is required to solve each problem in this book. Each problem also includes a hint that provides problem-solving guidance when needed. Comprehensive step-by-step solutions for all problems demonstrate accurate and efficient solving approaches.

Six-Minute Solutions will help you to:

- effectively familiarize yourself with the exam scope
- successfully connect relevant theory to exam-like problems
- quickly identify accurate problem-solving approaches
- actively engage with references you will use on exam day

Topics Covered

- Analysis and Design
- Drinking Water Distribution and Treatment
- Engineering Economics Analysis
- Groundwater and Wells
- Hydraulics—Closed Conduit
- Hydraulics—Open Channel
- Hydrology
- Wastewater Collection and Treatment
- Water Quality

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Editorial Review

About the Author

R. Wane Schneiter, PhD, PE, is Emeritus Dean of the Faculty at the Virginia Military Institute (VMI). Prior to his appointment as dean, he served as the head of VMI's Civil and Environmental Engineering Department and held the Benjamin H. Powell Jr. '36 Professorship in Engineering. His professional engineering activities have included consulting services on environmental issues to a wide array of public and private clients. He holds bachelor of science and doctorate degrees in civil engineering from Utah State University.

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ABOUT THIS BOOK

Six-Minute Solutions for Civil PE Exam Water Resources and Environmental Depth Problems is organized into nine chapters. Each chapter contains problems that correspond to the format and scope that would be expected to appear in the civil PE exam's water resources and environmental depth section.

Most of the problems are quantitative, requiring calculations to arrive at a correct solution. A few are nonquantitative. Some problems will require a little more than 6 minutes to answer, and others require a little less. On average, during the exam you should expect to complete 80 problems in 480 minutes (8 hours), or spend 6 minutes per problem.

The solutions are presented in a step-by-step sequence to help you follow the logical development of the correct solution and to provide examples of how you may want to approach your solutions as you take the PE exam.

Each problem includes a hint to provide direction in solving the problem. In addition to the correct solution, you will find an explanation of the faulty solutions leading to the three incorrect answer options. The incorrect options are intended to represent common mistakes specific to different problem types. These may be simple mathematical errors, such as failing to square a term in an equation, or more serious errors, such as using the wrong equation.

Though you will not encounter problems on the exam exactly like those presented in this book, reviewing these problems and solutions will increase your familiarity with the exam problems' format, content, and solution methods. This preparation will help you considerably during the exam.

Users Review

From reader reviews:

Valerie Israel:

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