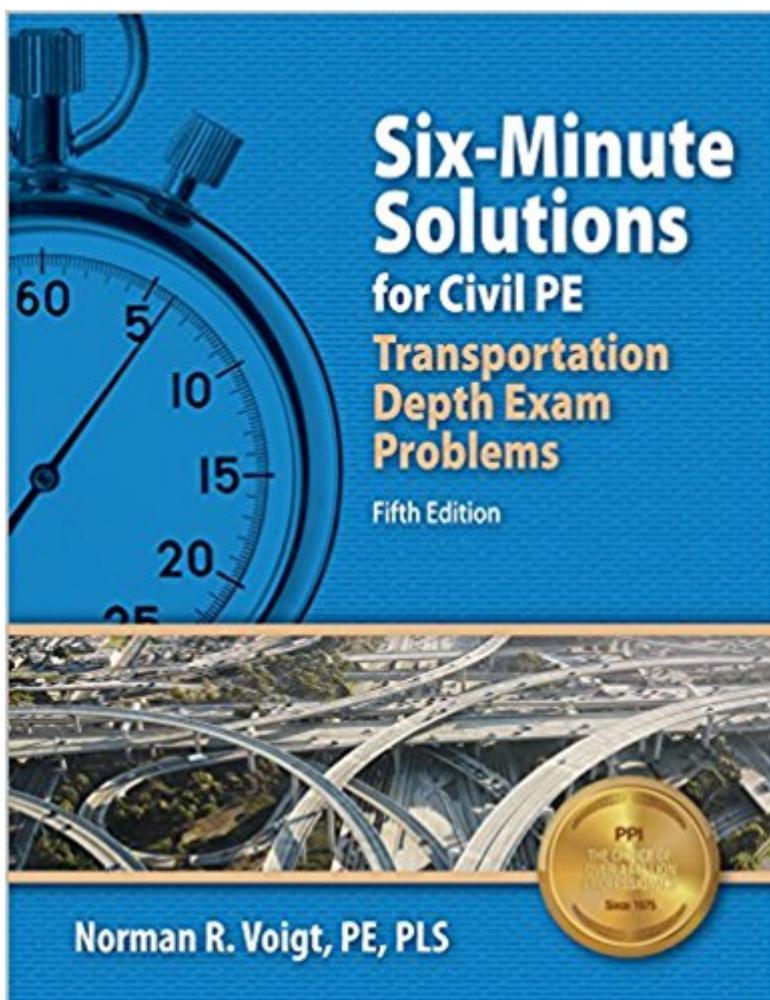


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# **Six-Minute Solutions For Civil PE Exam Transportation Problems, 5th Ed**



## Synopsis

Targeted Training for Solving Civil PE Transportation Depth Exam Multiple-Choice Problems

Six-Minute Solutions for Civil PE Transportation Depth Exam Problems contains 91 multiple-choice problems representative of the Civil PE transportation depth exam's format and level of difficulty. Problems are grouped into 10 chapters, and each chapter corresponds to a transportation depth exam knowledge area. Six-Minute Solutions includes hints that provide problem-solving guidance when you need it. Each solution describes common errors so you can avoid using incorrect solving approaches. You'll learn accurate and efficient solving methods by reviewing each problem's comprehensive, step-by-step solution. Solutions also frequently reference the Civil PE exam's transportation design standards to help familiarize you with the references you'll use on exam day.

**Topics Covered**

- Traffic Engineering
- Horizontal Design
- Vertical Design
- Intersection Geometry
- Roadside and Cross Section Design
- Signal Design
- Traffic Control Design
- Geotechnical and Pavement
- Drainage
- Alternatives Analysis
- Referenced Design Standards
- A Policy on Geometric Design of Highways and Streets (GDHS)
- Design and Control of Concrete Mixtures (PCA)
- Guide for Design of Pavement Structures (GDPS-4-M)
- Guide for the Planning, Design, and Operation of Pedestrian Facilities
- Highway Capacity Manual (HCM)
- Hydraulic Design of Highway Culverts (FHWA)
- Manual on Uniform Traffic Control Devices (MUTCD)
- Mechanistic-Empirical Pavement Design Guide: A Manual of Practice (MEPDG)
- Roadside Design Guide (RDG)
- The Asphalt Handbook (MS-4)

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## Customer Reviews

Norman R. Voigt, PE, PLS, is a registered civil engineer and land surveyor in Pennsylvania. Mr. Voigt obtained his bachelor of science and master of science degrees in civil engineering from the University of Pittsburgh. He has worked in both the private and public sectors, performing design, construction, maintenance, inspection services, and interagency project coordination on a variety of highway and transit projects. He has served as the principal coordinator for the civil PE intensive review course at Penn State Beaver, including organizing the course curriculum and teaching the transportation portion for more than 35 years. He has served as adjunct faculty at the University of Pittsburgh and The Pennsylvania State University. He has presented papers on various transportation subjects and on the role of adjunct faculty in undergraduate education, and has authored and edited several books on transportation engineering topics.

**ABOUT THIS BOOK***Six-Minute Solutions for Civil PE Transportation Depth Exam Problems* is organized into ten chapters. Each chapter contains problems that correspond to the format and scope that would be expected in the afternoon transportation depth section of the civil PE exam. Most of the problems are quantitative, requiring calculations to arrive at a correct solution. A few are nonquantitative. As on the exam, some of this book's problems will require a little more time to solve than others. On average, you should expect to spend about six minutes solving each problem. Each problem includes a hint to provide direction in solving the 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. 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 won't encounter problems on the exam exactly like those presented in this book, reviewing these problems and solutions will increase your familiarity with the exam's format, content, and solution methods. This preparation will help you considerably during the exam. *Six-Minute Solutions for Civil PE Transportation Depth Exam Problems* includes some problems related directly to geotechnical and water resources engineering. You'll find additional problems from these subdisciplines, which are included in the transportation exam, in *Six-Minute*

## Solutions for Civil PE Exam Geotechnical Problems and Six-Minute Solutions for Civil PE Exam Water Resources and Environmental Problems.

I was previously using a friend's old 2004 version of this book to study for my April 2016 pe transportation exam, only to find that the standards had changed pretty drastically since then and the problems either couldn't be solved with the current civil engineering reference manual due to a lack of information given, or the answers I calculated using the new formulas just didn't match. So, I decided to bite the bullet and spend the ridiculous amount that they charge for this 80 page book. I'm two questions in, and come to find out, this brand new version is also out of date with the current standards and the pe exam requirements. I am livid. Don't waste your money on this trash. You might as well buy the 15-year old version and save some money.

I think that is about all I can say. \$81.00 for less than 100 pages of content. This book contains only problems and solutions. It is relatively well illustrated and the problems are what you would expect from the afternoon transportation depth session. All in all it isn't a BAD book. IT IS JUST REALLY EXPENSIVE FOR WHAT YOU GET. I am used to paying outrageous prices for engineering texts. This really beats anything I have ever come across.

Good PE Transportation specific problems. Not too long but more involved than NCEES sample exams. Good problems that lead you into your different transportation references. Guides you to the pages you should be TABing. Do not use as a sample exam. Only good for working a few problems at a time and learning your transportation pe reference materials...Green Book, HCM mostly.

Anything that helps you study more is good, but the questions in this book were significantly harder than what you're asked on the test. I tabbed several problems in this book to reference during the test, and I didn't need to look at any of them. Since there are not a ton of books like this out there, it might be worth a buy, but I would put it on the bottom of your list.

Harder than actual PE test but still a good practice. I worked through all of these problems and still didn't pass the exam though so I guess I'll be trying again next time, and I plan on working through this book again.

This was a very helpful book. It provided me a good number of examples that were challenging and

at the same time very similar to the questions on the PE exam.

did even use it for the exam dont know how helpful it can be.

Used book for my PE exam. I Passed!! Book was great. Problems typical to those on the exam! recommend this one.

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