

Civil Engineering Solved Problems

Michael R. Lindeburg PE

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Civil Engineering Solved Problems Michael R. Lindeburg PE **Detailed Solutions for Civil PE Exam Problems**

Civil Engineering Solved Problems includes more than 370 problem scenarios representing a broad range of Civil PE exam topics. Each scenario's associated problems demonstrate related concepts and allow you to apply your knowledge of relevant theory and equations. The breadth of topics covered and the varied problem complexities allow you to assess and strengthen your problem-solving skills, regardless of which afternoon depth exam you choose to take. Where applicable, problems and solutions also reference the exam's design standards, so you can become familiar with and identify which will be most useful on exam day. For all problems, detailed step-by-step solutions illustrate accurate and efficient solving methods.

Due to the changes in codes for the 2015 NCEES PE exam, there are some updates to this edition. Though not all of PPI's products reflect the adopted editions of the new design standards, in most cases the principles change very little. While specific procedures, equations, or values may change gradually from one edition of a design or reference standard to the next, PPI's books continue to provide an appropriate overview of the design concepts presented, and will prepare you for the upcoming exams.

Civil Engineering Solved Problems will help you to:

- effectively familiarize yourself with the exam topics
- successfully connect relevant engineering theories to challenging problems
- efficiently navigate through exam-adopted codes and standards
- quickly identify accurate and efficient problem-solving approaches

Topics Covered

Water Resources: Fluid Mechanics; Hydraulic Machines; Open Channel Flow; Hydrology; Water Supply

Geotechnical: Soils; Foundations **Environmental:** Wastewater

Structural: Concrete; Steel; Timber; Masonry **Transportation:** Transportation; Surveying

Systems, Management, and Professional: Engineering Economic Analysis





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