



# Civil Engineering Reference Manual for the PE Exam, 15th Ed

By Michael R. Lindeburg PE

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**Civil Engineering Reference Manual for the PE Exam, 15th Ed** By Michael R. Lindeburg PE

## Comprehensive Civil PE Exam Coverage

The *Civil Engineering Reference Manual* is the most comprehensive textbook for the NCEES Civil PE exam. This book's time-tested organization and clear explanations start with the basics to help you quickly get up to speed with common civil engineering concepts. Together, the 90 chapters provide an in-depth review of all of the topics, codes, and standards listed in the NCEES Civil PE specifications. The extensive index contains thousands of entries, with multiple entries included for each topic, so you can find the topics referenced no matter how you search.

This book features:

- over 100 appendices containing essential support material
- over 500 clarifying examples
- over 550 common civil engineering terms defined in an easy-to-use glossary
- thousands of equations, figures, and tables
- industry-standard terminology and nomenclature
- equal support of U.S. customary and SI units

After you pass your exam, the *Civil Engineering Reference Manual* will continue to serve as an invaluable reference throughout your civil engineering career.

## Exam Topics Covered

- **Civil Breadth:** Project Planning; Means and Methods; Soil Mechanics; Structural Mechanics; Hydraulics and Hydrology; Geometrics; Materials; Site Development
- **Construction:** Earthwork Construction and Layout; Estimating Quantities and Costs; Construction Operations and Methods; Scheduling; Material Quality Control and Production; Temporary Structures; Health and Safety
- **Geotechnical Site Characterization:** Soil Mechanics, Laboratory Testing, and Analysis; Field Materials Testing, Methods, and Safety; Earthquake

Engineering and Dynamic Loads; Earth Structures; Groundwater and Seepage; Problematic Soil and Rock Conditions; Earth Retaining Structures; Shallow Foundations; Deep Foundations

- **Structural:** Analysis of Structures; Design and Details of Structures; Codes and Construction
- **Transportation:** Traffic Engineering; Horizontal Design; Vertical Design; Intersection Geometry; Roadside and Cross-Section Design; Signal Design; Traffic Control Design; Geotechnical and Pavement; Drainage; Alternatives Analysis
- **Water Resources and Environmental:** Analysis and Design; Hydraulics–Closed Conduit; Hydraulics–Open Channel; Hydrology; Groundwater and Wells; Wastewater Collection and Treatment; Water Quality; Drinking Water Distribution and Treatment; Engineering Economic Analysis

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## **Editorial Review**

### About the Author

Michael R. Lindeburg, PE, is one of the best-known authors of engineering textbooks and references. His books and courses have influenced millions of engineers around the world. Since 1975, he has authored more than 35 engineering reference and exam preparation books. He has spent thousands of hours teaching engineering to students and practicing engineers. He holds bachelor of science and master of science degrees in industrial engineering from Stanford University.

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Most chapters in this book are independent. Start with any one and look through it. Use the index extensively. Decide if you are going to work problems in that topic. If so, solve as many problems in that topic as time allows. Do not stop studying until the exam. Start right now! Quickly! Goodluck.

If you are preparing for the PE exam in civil engineering, the following suggestions may help.

- Find out the current edition of this book. You might be reading this book long after it was published. Newer editions mean that the codes, standards, and regulations on which the exam is based are not represented in the older edition, that the exam body of knowledge has changed, and/or the exam format and policies have changed. Older editions are no longer appropriate for the current exam, and it is not reasonable for you to expect an older edition to serve your needs when it is out of date.
- Become intimately familiar with this book. This means knowing the order of the chapters, the approximate locations of important figures and tables, what appendices are available, and so on.

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